UNIVERSIDADE FEDERAL DO PARANÁ

CENTRO DE ESTUDOS DO MAR

MONICA SANTIAGO SIMIÃO

DINÂMICA SAZONAL E ESPACIAL DO FITOPLÂNCTON NOS MÁXIMOS SUBSUPERFICIAIS DE CLOROFILA DA PLATAFORMA CONTINENTAL AO LONGO DE SANTA CATARINA, SUL DO BRASIL.

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Pontal do Paraná

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Tese apresentada ao Curso de Pós Graduação em Sistemas Costeiros e Oceânicos da Universidade Federal do Paraná para obtenção do título de Mestre em Sistemas Costeiros e Oceânicos.

Orientador: Prof. Dr. Frederico Pereira Brandini.

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TERMO DE APROVAÇÃO

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Membro Examinador

Dr. Maurício Almeida Noernberg (UFPR/CEM)
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Pontal do Paraná, 29 de março de 2010.

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"*If two or more morphs exist side by side in nature*
and it is suspected that they may be diferent products of the
same genotipe,
then one good test is to search for 'Janus Cell'..."

Frank Erik Round.

Aos meus pais,
Mauro e Ruth
e ao meu irmão.

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DINÂMICA SAZONAL E ESPACIAL DO FITOPLÂNCTON NOS MÁXIMOS SUBSUPERFICIAIS DE CLOROFILA DA PLATAFORMA CONTINENTAL AO LONGO DE SANTA CATARINA, SUL DO BRASIL.

Resumo

Máximos sub-superficiais de clorofila (MSC) ocorrem permanentemente nos setores externos e médios da plataforma continental sudeste do Brasil. Geralmente se desenvolvem ao longo da picnoclina, entre a camada de mistura superficial cupada por águas subtropicais e a camada profunda rica em nutrientes ocupada pela Água Central do Atlântico Sul (ACAS). Pesquisas anteriores discutiram a ocorrência de MSCs em níveis de profundidades variando de 5 à 10% da luz incidente na superfície, associados à sedimentação de células do fitoplâncton ao crescimento *in situ*. Nesse estudo foram obtidos perfis verticais de fluorescência natural em um transecto perpendicular ao longo de 157 km da plataforma do estado de Santa Catarina entre novembro de 2005 e junnho 2006. A persistência de ventos de norte e nordeste induziu intrusões da ACAS na camada de fundo. Como consequencia dessa intrusão sazonal foi observada a formação de dois núcleos independentes de MSCs em níveis medios de 2% de luz incidente na superfície. Picos de clorofila nos MSC variaram de 0,07 a 6,2 $mg.m^{-3}$ a biomassa do fitoplancton variou de 0,2 a 511 $\mu gC.L^{-1}$. Amostras biológicas foram coletadas na camada de mistura superficial e nos MSCs para análise da composição, densidade e biomassa fitoplanctônica. Espécies típicas de águas tropicais e subtropicais dominaram os MSC principalmente nos setores médios e externos da plataforma. Nos setores internos as diatomáceas cêntricas dominaram em termos de biomassa enquanto as diatomáceas penadas foram mais abundantes. Altas densidades de *Aulacoseira granulata,* especies tipicas indicadoras de aguas doces e estuarinas foram registradas ao longo da plataforma durante a estação chuvosa. Os resultados desta pesquisa confirmam o acúmulo de biomassa em células grandes (p.ex. Coscinodicus wailesii) bem como a maior densidade determinadas (p. ex. *Hemiaulus indicus* e espécies penadas não identificadas) na formação dos MSCs.

Palavras-chave: máximos sub-superficiais de clorofila, fitoplâncton, biomassa, plataforma continental

SEASONAL AND SPATIAL DYNAMICS OF PHYTOPLANKTON AT THE SUBSURFACE CHLOROPHYLL MAXIMUM LAYERS IN THE SOUTH BRAZIL BIGHT, SANTA CATARINA, BRASIL.

Abstract

Subsurface chlorophyll maximum layers are common in mid and outer sections of the South Brazil Bight. They usually develop along the pycnocline, between the upper mix layer, occupied by subtropical waters, and the deep layer rich in nutrients, occupied by the South Atlantic Central Water. Previous studies have discussed the occurrence of MSCs in depth levels ranging from 5 to 10% of the surface light, associated with sedimentation of phytoplankton cells and the *in situ* growt. Vertical profiles of natural fluorescence have been made in a perpendicular transect along the 157 kilometers off the shelf of Santa Catarina state, from November 2005 to June 2006. The persistence of northern and northeastern winds induces bottom intrusions of the SACW It has been observed the formation of two independent cores of MSC along the cross-shelf at approximately 2% of surface light intensity. Chlorophyll's peaks at MSCs layers ranging 0,07 to 6,2 $mg.m^{-3}$, biomass range 0,2 to 511 $\mu gC.L^{-1}$. Water samples have been collected from the upper mix layer and from the MSCs for analysis of phytoplankton composition, density and biomass. In the mid and outer shelf phytoplankton was made of typical tropical and subtropical species. In the inner and mid shelf centrics diatoms dominated in terms of biomass, while pennate diatoms were numerically dominants. High densities of the freshwater species *Aulacoseira granulata* were registered along the platform during the rainy season. These results confirm the carbon biomass and densities of phytoplankton in the MScs tends to accumulate in large cells such as *Coscinodiscus wailesii*, *Hemiaulus indicus* and small penate diatoms.

Keywords: subsurface chlorophyll maximum layers, phytoplankton, continental shelf

LISTA DE ABREVIATURAS E SIGLAS

AC	Água Costeira
ACAS	Água Central do Atlântico Sul
AP	Água de Plataforma
AT	Água Tropical
CB	Corrente do Brasil
FSP	Frente Subtropical de Plataforma
FTP	Frente Térmica Profunda
MSC	Máximos Sub-superficiais de Clorofila.
PCE	Plataforma Continental Externa
PCI	Plataforma Continental Interna
PCM	Plataforma Continental Média
PCSE	Plataforma Continental Sudeste

SUMÁRIO

1 INTRODUÇÃO

Máximos sub-superficiais de clorofila (MSC) se formam entre massas de água estratificadas, e são caracterizados por acúmulos de fitoplâncton ao longo da termoclina (KONONEN *et al*., 1998). Ocorrem permanentemente em oceanos profundos e sazonalmente nas águas de plataforma das regiões temperadas em situações de estratificação vertical (PROBYN *et al*., 1995; GAETA & BRANDINI, 2006). Os mecanismos responsáveis por seu desenvolvimento e composição taxonômica são extremamente diversificados entre regiões, de forma que o conhecimento sobre sua estrutura ainda é inconsistente (MACEDO et al., 2000; NICEVIC *et al*.,2002; BARLOW *et al*., 2002; BARBIERO *et al*., 2004). Ocorrem permanentemente em oceanos profundos e sazonalmente nas águas de plataforma das regiões temperadas em situações de estratificação vertical. Os mecanismos de desenvolvimento e acoplamentos tróficos de formação são extremamente diversificados entre regiões, de forma que o conhecimento sobre sua estrutura ainda é inconsistente (MACEDO et al., 2000; NICEVIC *et al*.,2002; BARLOW *et al*., 2002; BARBIERO *et al*., 2004).

A maioria dos autores concorda que os MSC representam máximos de biomassa fitoplanctônica. Os fenômenos que favorecem o acúmulo de clorofila ao longo da termoclina/nutriclina podem ser o (i) aumento das taxas de crescimento celular de microalgas em condições satisfatórias de luz e nutriente, (ii) acúmulo celular e de detritos clorofilados que sedimentam na picnoclina (FENELL & BOSS, 2003), (iii) crescimento mono-específico de células com elevadas concentrações de clorofila por biomassa (REID *et al*., 1978), (iv) redução da herbívora quando comparada com a zona de mistura superficial (KONONEN *et al*., 1998) e (v)

comportamentos diferenciados, como a agregação ativa de células flageladas (MCINTIRE *et al*., 2007).

Alguns autores sugerem que os MSC ocorrem separadamente dos máximos de biomassa. O aumento da concentração de clorofila nestas camadas pode ser devido à adaptações fisiológicas da comunidade em baixos níveis de luz (foto aclimatação) sem necessariamente ser acompanhado do conteudo de carbono celular. Neste caso, as respostas são refletidas no aumento das quotas celulares de clorofila em relação à biomassa específica (EPPLEY *et al*., 1988; BASTERRETXEA & ARÍSTEGUI, 2000).

A concentração de clorofila no MSC depende da composição específica. O desenvolvimento das comunidades depende principalmente de processos em meso escala como, por exemplo, o fluxo de nutrientes a partir de camadas sub-superficiais. Em menores escalas as cotas específicas de clorofila celular podem variar de acordo com a predisposição genética do táxon, devido ao tamanho celular, a taxa de crescimento e limites específicos de radiação, temperatura e concentração de nutrientes (ROUND *et al.*, 2000). Desta forma, oscilações sistemáticas das comunidades também podem ser notadas entre razões de carbono e clorofila (HUNTER & LAW, 1981; REDALJE, 1983).

NO Brasil os MSC são comuns da plataforma continental da Região Sudeste-Sul, associados aos processos de circulação e regimes meteorológicos (BRANDINI, 1988a; GAETA, 1999, BRANDINI, 1988b; BRANDINI 1990; BRANDINI *et al*, 2007; (GAETA & BRANDINI, 2006). Os padrões sazonais de circulação se relacionam à persistência, direção e intensidade dos ventos, e a geomorfologia da costa. Ventos predominantes de norte e nordeste durante o verão induzem a divergência costeira

pelo transporte de Ekman, transportando águas de superfície para longe da costa e causando a intrusão ortogonal Água central do Atlântico Sul (ACAS) na camada de fundo (CASTRO-FILHO & MIRANDA, 1998; CASTRO *et al*., 2006). A intrusão fertiliza a base da zona eufótica onde o fitoplancton se desenvolve melhor do que nas camadas da zona demistura pobres em nutrientes apesar da maior disponibiidade de luz (BRANDINI, 1990. Durante o inverno ventos predominantes de sul e sudoeste invertem a circulação da impedindo as intrusões da ACAS. Alem disso, intrusões laterais de águas frias e pouco salinas oriundas da Lagoa do Patos e do Rio da Prata caracterizam a Frente Subtropical de Plataforma (FSP). Essa frente transporta nutrientes e material orgânico particulado através dos setores internos e medianos da plataforma até o estado de São Paulo (BRANDINI, 1990; PIOLA *et al*., 2008; CASTRO *et al.,* 2006). A FSP favorece o crescimento das diatomáceas sobre os demais grupos (BRANDINI, 1988; BRANDINI, 1990a; ODEBRECH & DURFELDT, 1996) além de dinoflagelados (ex. *Ceratium tripos e C. lineatum) e os silicoflageldos (Dicticha fíbula e Distephanus speculum)* (BRANDINI *et al.,* 1997). A forma como a FSP afeta os MSC na plataforma ainda precisa ser estudado, sobre tudo por que contribui trazendo espécies costeiras alóctones à plataforma.

Estudos sobre a estrutura das comunidades fitoplantônicas no plano vertical são fundamentais para a compreensão da dinâmica dos ecossistemas de plataforma da Região Sudeste Sul brasileira. Contudo se faz necessário uma investigação mais detalhada sobre a composicão específica nos diferentes estrados onde ocorrem ecótonos específicos que favorecem separadamente grupos específicos. Tem sido observado o aumento da densidade de coccolitoforideos micro e nanoplanctônicos, diatomáceas (*Pleurosigma sp.; Coscinosira sp., Eucampia sp.*), dinoflagelados e

cyanofíceas (*Trichodesmium spp*.) associados ao MSC enquanto a camada superior ocupada pela Água Tropical (AT) oligotrófica foi dominada por fitoflagelados nanoplanctônicos, coccolitoforídeos e cianobactérias (BRANDINI & MORAIS, 1986, BRANDINI, 1988a; BRANDINI, 1990). Odebrecht e Durfeldt (1996) observaram a dominância de diatomáceas grandes do gênero *Coscinodiscus* e *Thalassiosira* nos MSC da plataforma de Santa Catarina e maior densidade de gêneros menores na camada superior. Florações da diatomácea *Hemiaulus sinensis* no fundo da camada eufótica forram relacionadas com às ascensão das águas férteis próximas à resurgência de Cabo Frio (GAETA, 1999).

Taxas de produtividade estimadas por sensoriamento remoto em escalas sinóticas vem sendo amplamente utilizado para quantificar a produção oceânica e caracterizar sua variabilidade em escalas regionais e globais (KAMPELL *et al*., 1997). O sensoriamento remoto permite estimar a dinâmica fitoplantônica e a produtividade na superfície dos oceanos detectando a absorção seletiva dos pigmentos fotossintéticos (Clorofila-a) através da cor (KAMPELL *et al*., 1997). Neste caso a clorofila é usada como índices de biomassa e produtividade da superfície (HARRIS, 1986). Entretanto, a técnica não estima comprecisão a produção primária regional uma vez que não consegue detectar picos subsuoperficiais de maior produtividade, subestimando a produção primária na zona eufótica. Mesmo as técnicas de coleta tradicionais com garrafas usadas na maioria dos estudos sobre o fitoplâncton no Brasil (Brandini *et al.,* 1997) desconsideram a contribuição relativa dos MSC porque estes não são detectados pelas amostragens discretas feitas com garrafa

1.1 OBJETIVOS

1.1.1 Geral

Avaliar a dinâmica espacial e sazonal do fitoplâncton associado ao MSC em relação ao gradiente de profundidade costa-oceano ao largo de Santa Catarina, região sueste do Brasil entre novembro de 2005 e junho de 2006.

1.1.2 Específicos

- Identificar a variação da profundidade e extensão dos MSC ao longo do gradiente batimétrico costa-oceano;
- Analisar a variação espaço-temporal do fitoplâncton na zona de mistura e nos MSCs associados à termoclina ($T/Clor^{máx}$);
- Verificar o acoplamento entre densidade celular, biomassa e concentração de clorofila observadas nos MSC.

1.2 ÁREA DE ESTUDO

1.2.1 Características gerais

A área de estudo esta representada por um transecto amostral perpendicular a costa formado por estações oceanográficas nos setores interno, médio e externo da plataforma (Figura 1). Do ponto de vista oceanográfico, o transecto pode ser considerado representativo da plataforma continental sudeste (PSCE), aqui definida como a região de plataforma no Atlântico Sul-Ocidental que se estende entre Cabo

de São Tomé (22˚S) até Cabo de Santa Marta (28° 40`S) em Santa Catarina (CASTRO & MIRANDA, 1998) .

A porção mais larga da PCSE, adjacente à cidade de Santos no litoral de São Paulo, tem cerca de 230 Km. As partes mais estreitas localizam-se nas proximidades de Cabo Frio, com 50 km, e Cabo de Santa Marta, com 70 Km. O comprimento da PCSE é aproximadamente 1110 km em uma área de 150.000 km^2. A profundidade média da PCSE é 70m, as máximas localizadas na quebra da plataforma variam entre 120 e 180 m. A orientação geral da linha da costa é NE-SO, com exceção das regiões situadas imediatamente ao sul de Cabo Frio, onde a orientação é E-O e ao norte do Cabo de Santa Marta onde a orientação é N-S. A batimetria da PCSE é suave, as isóbatas se dispõem paralelamente a linha da costa salvo exceção próximas à algumas ilhas localizadas perto da costa e no interior de baias (ZEMBRUSKI, 1979).

Poucos rios fluem diretamente para ao mar na PCSE. O estuário do rio Itajaí situado em 26° 57´S é o maior sistema fluvial localizado entre o sistema lagunar Patos – Mirim no Rio Grande do Sul, 700 Km ao sul e o rio Ribeira do Iguape em São Paulo 300 km ao norte. Porém, pulsos de descarga são fenômenos transitórios uma vez que o volume da vazão é controlado por regimes hidrográficos e pluviométricos (SCHETINNI *et al*. 2002). Schetiini et al. (2005) evidenciaram pouca influencia direta sobre as variáveis químicas, físicas, geológicas e biológicas na plataforma. Uma feição oceanográfica proeminente observada próximo à linha da costa são plumas com baixa salinidade durante o inverno a partir do Estuário do Rio da Prata estendendo-se 1400 km em direção nordeste até Lat. 26°S. O transporte e a penetração desta pluma na PCSE foram associados às variações regimes de vento ao longo da costa e à Frente Subtropical de Plataforma (PIOLA *et al*., 2008).

1.2.2 Massas de água e circulação na PCSE

Segundo os estudos pretéritos de Emílsson (1961) e posteriores trabalhos posteriores (CASTRO; MIRANDA, 1998; MIRANDA & CASTRO, 1979) a circulação geral na PCSE pode ser descrita da seguinte forma: a CB flui ao longo do talude ~~e~~ próximo à quebra da plataforma continental na direção sul-sudoeste transportando a Água Tropical (AT) quente e salina (T>20^{o}C e S> 36,4), na camada superficial entre 0-200 m. Por baixo da AT, entre 200 e 500 m, a CB transporta a Água Central do Atlântico Sul (ACAS), fria e menos salina (T<20 ^{o}C e S< 36,4) identificada como uma termoclina permanente. Ao longo e nas proximidades da costa, a PCSE é ocupada pela Água Costeira (AC) com menor salinidade resultante das misturas das descargas continentais de água doce com água de plataforma. Água de Plataforma (AP) é o resultado ~~entre~~ da mistura entre AT e AC. Durante o verão, a maior insidência dos ventos nordeste induz ao efeito Ekman que transporta águas de superfície para fora da costa, fazendo com que a ACAS penetre na camada profunda em direção a costa. No inverno esse mecanismos se reverte e a ACAS permanece distante da costa, próxima à quebra da plataforma continental.

A camada inferior relativa à ACAS é caracterizada por um rico estoque sub-superficial de nutrientes inorgânicos (BRAGA & NIENCHESKI, 2006) que fica confinado à camada de fundo devido à estratificação térmica permanente. Qualquer processo de mistura que rompa a estabilidade física da termoclina resulta na fertilização do sistema pela entrada de nutriente “novo” na zona eufótica (Brandini & Gaeta, 2006). As ressurgências de borda de plataforma e formação de vórtices ciclônicos (KAMPEL *et al.,* 1997) devido ao meandramento da corrente do Brasil provocam a ascensão da ACAS até níveis satisfatórios de luz, modificando

provisoriamente o sistema de produção regenerada para sistema de produção nova sobre o talude continental *(*Gaeta, 1999).

1.2.3 Climatologia

O deslocamento do centro de alta pressão (Alta Subtropical) sobre o Giro Anticiclônico do Atlântico Sul afeta a hidrografia na PCSE em escalas sazonais e sinóticas (Castro 1990 e Castro e Miranda 1998). A dinâmica das correntes na PCSE é resultante da combinação entre a largura e batimetria com a intensidade, direção e persistência da tensão de cisalhamento do vento. Em geral os ventos sopram no sentido sudeste-nordeste ao longo da plataforma entre as Latitudes 15 e 25ºS, e no sentido sudoeste-noroeste entre as Latitudes 35 e 40ºS.

Durante o verão o centro de alta pressão é menos desenvolvido, posicionado mais ao sul e mais afastado do continente. Os ventos sobre a plataforma sopram de leste-nordeste entre as Latitudes 15 e 35 ºS. Durante o inverno o centro de alta pressão subtropical é bem desenvolvido e sua posição oeste posicionada sobre o continente confinado os ventos leste-nordeste entre as Latitudes 20 e 25ºS sendo que e ao sul destas latitudes os ventos sopram de oeste-sudoeste.

Os sistemas frontais (frentes frias) são as perturbações atmosféricas mais importantes sobre a PCSE. Freqüentemente, se propagam ao longo da costa entre 40º e 20ºS, embora possam atingir menores latitudes especialmente no inverno (KOUSKY, 1979). Em média a freqüência de ocorrência ao longo do ano é de 3 à 6 vezes por mês com duração média de 5 à 10 dias sendo as mínimas em fevereiro e máximas em outubro (OLIVEIRA, 1986).

1.2.4 Concentração de clorofila e formação de MSC

Os MSC se intensificam durante o verão devido à penetração e ascensão da ACAS nas camadas de fundo. A intrusão ortogonal da ACAS é geograficamente abrangente que disponibiliza nutriente novo na zona eufótica por tempo suficiente para que a biomassa se acumule (METZLER *et al*., 1996). Brandini e Gaeta (2006) calcularam a concentração média de clorofila em relação a cada massa de água com base nas médias propostas por autores nos últimos 20 anos. Na AC, AP, ACAS, e MSC as concentrações médias foram 2,9, 0,46, 1,69, 0,21 mg m^{-3}, respectivamente. Da mesma maneira valores médios de biomassa em termos de clorofila integrada na zona eufótica para a AC, AP e AT foram 45,39, 42,92 32,95 mg m^{-2}, respectivamente. Estes autores concluíram que apesar das concentrações variáveis de clorofila entre as massas de água, a produção total da zona eufótica é menos marcante devido à extensão da área ocupada pela AC ser menor em relação às outras massas de água, e a AP menor em relação a AT. Ainda, afirmam que a produtividade nos MSC pode aumentar os valores integrados da produção nas zonas de mistura nas porções medias e externas da plataforma.

Durante o inverno as maiores freqüências de frente frias transportam as águas frias subantárticas enriquecidas por nutriente da drenagem da bacia do Rio da Prata próximas à costa (PIOLA *et al*., 2000). Foi observado o aumento da biomassa em termos de clorofila-a (AIDAR *et al*, 1993) e a dominância das diatomáceas sobre os demais grupos (BRANDINI, 1990a).

2 MATERIAL E MÉTODOS

2.1 ESTRATÉGIA AMOSTRAL

Os dados foram coletados no âmbito do projeto “Dinâmica das interações Físico-Biológicas no Sistema Pelágico Plataforma Continental da região Sueste brasileira – PROPPEL” à bordo do navio oceanográfico “*Soloncy Moura”* do CEPSUL-IBAMA/SC. Foram feitos 5 cruzeiros, entre novembro de 2005, e janeiro, março, abril e junho de 2006. Cada cruzeiro percorreu uma radial perpendicular a costa na latitude 26^{o} 45’ S partindo da isóbata de 20 m ao próximo à enseada da Penha ao Norte do estuário do rio Itajaí na plataforma continental do estado de Santa Catarina (FIGURA 1). Com o objetivo de aprimorar a resolução espacial nas estações costeiras foram definidos espaçamentos batimétricos em intervalos de 5 m até a isóbata de 50 metros. Entre as isóbatas de 50 e 100 metros os intervalos foram a cada 10 m. Amostragens mais profundas foram a cada 20 m até no máximo a isóbata de 140 metros. Para manter este espaçamento entre os pontos amostrais foram estabelecidas 14 estações oceanográficas ao longo de 147 km (~ 80 mn). A Tabela 1 resume a estratégia amostral adotada no projeto PROPPEL.

Tabela 1: Posição das estações oceanográficas do projeto PROPPEL.

Estação Oceanográfica	[A]Latitude (°S)	[A]Longitude (°E)	Distância em relação a E20 (KM)
E20	26,7669	48,5564	0
E25	26,7655	48,5239	3,2
E30	26,7656	48,4891	6,6
E35	26,7651	48,4605	9,5
E40	26,7649	48,4149	14,04
E45	26,7651	48,3364	21,8
E50	26,7650	48,2284	32,57
E60	26,7640	47,9760	57,5
E70	26,7647	47,8283	72,2
E80	26,7635	47,7777	77,2
E90	26,7642	47,7024	84,7
E100	26,7630	47,5593	98,9
E120	26,7626	47,3669	118,02
E140	26,7653	47,0763	146,8

A) Datum vertical WGS 84.

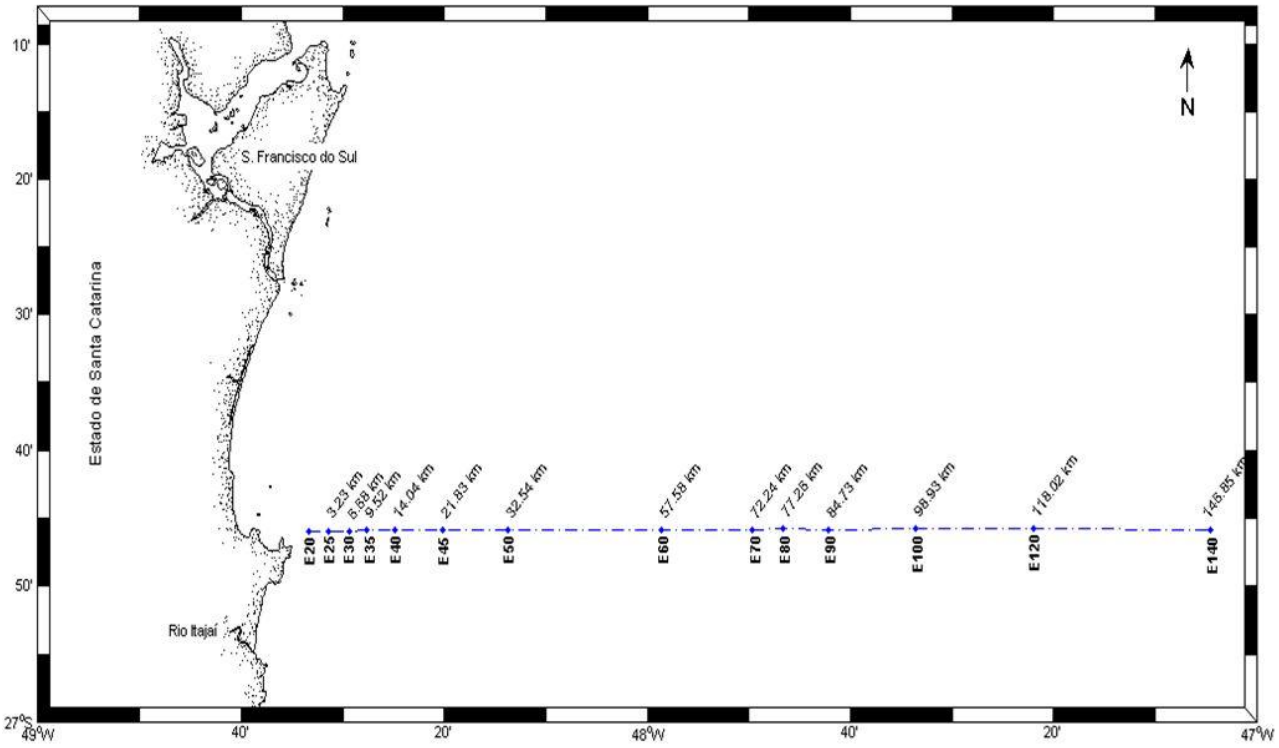

Figura 1: Área de estudo – Transecto e estações oceanográficas do projeto PROPPEL. Na posição inferior da linha pontilhada é indicado o nome das estações referente ás isóbatas amostradas. Na posição superior à linha é indicada a distância (Km) em relação à primeira estação.

2.2 DOMÍNIOS OCEANOGRÁFICOS

2.2.1 Massas de água

As análises e resultados de um dos sub-porjetos do PROPEL gerados por Netto-Junior (2008) sobre a hidrografia e identificação de massas d'água nortearam a delimitação e posição das massas d'água utilizadas neste trabalho. As massas, bem como os índices termohalinos calculados para os cruzeiros de 2006 são resumidos na tabela 2.

Tabela 2: Definições e índices termohalinos das diferentes massas de água encontradas na PCSE durante o estudo.

Massa de água	Fevereiro	Março	Abril	Junho
AC	28,44 °C / 32,84	28,21 °C / 34,35	24,18 °C / 35,35	20,11 °C / 33,94
AT	26,06 °C / 37,6	26,06 °C / 37,6	26,06 °C / 37,6	26,06 °C / 37,6
ACAS	13,09 °C / 35,35	13,09 °C / 35,35	13,09 °C / 35,35	13,09 °C /35,35

2.2.2 Máximos sub-superficiais de clorofila

Em cada estação foi feito o perfil vertical da coluna da água até a profundidade de aproximadamente 100 m com um perfilador de fluorescência natural modelo PNF 300-Biospherical. Foram gerados dados contínuos de clorofila-a, temperatura, radiação fossinteticamente ativa (RFA). O índice de heterogeneidade da distribuição vertical da clorofila foi usado para a determinação da profundidade dos MSC. Se a concentração superficial de clorofila (3 - 5 m) dividida pela de clorofila da coluna de água (Clor-$a^{s.}$:Clor-a^{f}) for <1, a indicou a ocorrência, profundidade e espessura pode ser confirmada (RICHARDSON et al, 2005). Estes índices orientaram a estratégia amostral biológica e são representados na tabela 3.

Tabela 3: Estratégia amostral adotada para coleta de dados de densidade e biomassa fitoplanctônica. Estações oceanográficas em relação aos estratos amostrados ao longo do transecto na PCSE entre Novembro de 2005 e junho de 2006. Profundidade, clorofila, massa de água e índices (<1) indicando a profundidade dos picos com MSC.

Mês	Estação	Superfície			MSC			Índice
		Prof. (m)	Clor-a ($mg.m^{-3}$)	Massa de água	Prof. (m)	Clor-a ($mg.m^{-3}$)	Massa de água	($Clor^{s}$:$Clor^{f}$)
Novembro	E20	-5	1,19	N.D.				
11-12/11/ 2005	E25	-5	0,7	N.D.				
	E30	-5	0,34	N.D.				
	E40	-5	0,19	N.D.	-40	0,24	N.D.	0,79
	E50	-5	0,15	N.D.	-40	0,46	N.D.	0,32
	E60	-5	0,06	N.D.	-50	0,83	N.D.	0,07
	E70	-5	0,09	N.D.	-50	0,54	N.D.	0,18
	E80	-5*	0,08	N.D.	-50	0,45	N.D.	0,18
	E90	-5*	0,08	N.D.	-50	0,36	N.D.	0,24
	E100	-5	0,08	N.D.	-50	0,25	N.D.	0,41
	E130	-5*	0,07	N.D.	-73	0,24	N.D.	0,30
Janeiro	E20	-5	0,88	AC	-20	0,91	ACAS	0,97
16-17/01/2006	E25	-5	0,48	AC	-20	1,54	ACAS	0,26
	E30	-5	0,33	AC	-20	0,58	ACAS	0,57
	E35	-5	0,23	AC	-30	0,38	ACAS	0,61
	E40	-5	0,12	AC	-25	0,56	ACAS	0,21
	E45	-5	0,1	AC	-40	1,2	ACAS	0,08
	E50	-5	0,09	AC	-35	0,38	ACAS	0,23
	E60	-5	0,13	AC	-50	1,2	ACAS	0,11
	E70	-5	0,11	AC	-40	0,64	ACAS	0,17
	E80	-5*	0,07	AC	-50	0,55	ACAS	0,14
	E90	-5*	0,09	AC	-35	0,2	ACAS	0,49
	E100	-5	0,12	AC	-40	0,21	ACAS	0,57
	E120	-5	0,09	AC	-60	0,3	ACAS	0,31
	E140	-5	0,12	AT	-80	0,43	AT	0,29
Março	E20	-5	0,83	AC				
14-16/03/2006	E25	-5	0,41	AC	-20	0,61	AC	0,67
	E30	-5	0,13	AC	-25	0,27	AC	0,50
	E35	-5	0,12	AC	-25	0,32	AC	0,39
	E40	-5*	0,16	AC	-20	0,23	AC	0,72
	E45	-5	0,13	AC	-30	0,37	AC	0,36
	E50	-5	0,17	AC	-40	0,3	AT	0,56
	E60	-5	0,1	AC	-40	0,91	ACAS	0,11
	E70	-5	0,14	AC	-40	1,8	ACAS	0,07
	E80	-5	0,12	AC	-40	1,53	ACAS	0,07
	E90	-5	0,12	AC	-50	2,99	ACAS	0,04
	E100	-5	0,11	AT	-60	0,26	ACAS	0,42
	E120	-5	0,09	AT	-70	0,71	ACAS	0,13
	E140	-5	0,07	AT	-80	0,17	ACAS	0,40
Abril	E20	-5	1,65	AC				
19-21/05/2006	E25	-5	0,73	AC				
	E30	-5	0,73	AC				
	E35	-5	0,47	AC				
	E40	-5	0,54	AC				
	E45	-5	2,05	AC				
	E50	-5	0,4	AC	-10	0,69	AC	0,58
	E60	-5	1,22	AC				
	E70	-5	0,17	AC				
	E80	-5	0,1	AC	-50	0,21	AC	0,48
	E90	-5	0,07	AC	-50	0,5	AC	0,15
	E100	-5	0,13	AT	-50	2,4	ACAS	0,05
	E120	-5	0,1	AT	-70	0,32	ACAS	0,31
	E140	-5	0,1	AT	-60	0,21	ACAS	0,46

Junho	E20	-5	0,69	AC
19-21/ 06/2006	E25	-5	0,31	AC
	E30	-5	0,27	AC
	E35	-5	0,63	AC
	E40	-5	0,63	AC
	E45	-5	0,22	AC
	E50	-5	0,19	AC
	E60	-5	0,35	AC
	E70	-5	0,16	AC
	E80	-5	0,17	AC
	E80	-5	0,18	AC
	E90	-5	0,1	AC
	E100	-5	0,26	AC

(*) ausência de dados biológicos

2.3 PARÂMETROS BIOLÓGICOS

2.3.1 Amostragem e tratamento das amostras

As análises qualitativas foram feitas em amostras obtidas por arrastos verticais com uma rêde cônica com malha de 20 µm e 30 cm de diâmetro de boca a partir da base dos MSCs até a superfície. As amostras foram fixadas com formaldeído 0,4% (EDLER, *op cit*) em frascos de polietileno de 200 ml. Para as análises quantitativas do fitoplâncton foram coletadas amostras na zona de mistura à 5m e na profundidade de MSC com uma garrafa Hydro-bios de 1,2 litros. Alíquotas de 60 ml foram armazenadas em frascos de vidro com coloração âmbar e fixadas com lugol acético 0,8% (EDLER, 1978).

2.3.2 Análise microscópicas

2.3.2.1 Densidade

A contagem celular foi feita em câmaras de sedimentação Hydrobios (Kiel, Alemanha) e um microscópio invertido modelo Zeiss 03-ED seguindo a técnica de Utermöhl (1958). As amostras das estações costeiras foram analisadas em câmara

de 10 ml e as oceânicas em câmaras de 50 ml. O período de sedimentação variou entre 12 e 24 horas para as amostras costeiras e oceânicas respectivamente (HASLE, 1978). Células < 20 µm foram contadas em magnificação de 400x cruzando diâmetro da cuba quantas vezes necessárias até um mínimo de 100 células. Células > 20µm foram contadas em 160x na área total da câmara ou meia câmara, de acordo com a densidade celular de cada amostra, a fim de estimar um mínimo de 300 indivíduos quando possível. A densidade em células por litro (cel.L^{-1}) foram calculados de acordo com Semina (1978) a partir da seguinte fórmula:

$$N = [(n.A/a)\ .\mathrm{V}]/\mathrm{v}$$

Onde : *N* = densidade celular (cel.L^{-1})

A = área da câmara

a = área contada

V= Volume da amostra

v = volume da alíquota

2.3.2.2 Biovolume e biomassa

As dimensões lineares das células foram obtidas por meio de uma régua adaptada à ocular com base nas 21 formas geométricas propostas por Hillebrand *et al*. (1999). Foram consideradas as médias e desvios padrões de 20 células selecionadas aleatoriamente dos táxons dominantes. Espécies raras foram mensuradas quantas possíveis (SMAYDA, 1978; RICHARDSON *et al*.,2005). Os cálculos de volume celular a partir das das formas geométricas foram feitos no software ALGAMICA versão 4.0 desenvolvido em base DOS para PC (GOSSELAIN;

HAMILTON, 2000; HAMILTON, 1990). O volume celular de cada táxon foi convertido para carbono celular e biomassa em termos de conteúdode de acordo com Eppley *et al.* (1970) cujas fórmulas representam medidas indiretas do volume de plasma e vacúolo. Para diatomáceas e para os demais grupos foram usadas respectivamente as seguintes fórmulas:

$$Ccel = 10^{(0{,}76 \log_{10}(V) - 0{,}352)}$$

$$Ccel = 10^{(0{,}94 \log_{10}(V) - 0{,}6}$$

Onde: *Ccel*= carbono celular
V= volume celular

A biomassa total em µgC.l^{-1} foi calculada a partir da fórmula:

$$B = \frac{N.Ccel}{1000}$$

Onde: *B* = Biomassa total
N = Densidade celular
Ccel = Carbono celular

2.3.3 Análise qualitativa

As amostras de fitoplâncton de rede foram oxidadas e preparadas entre lâminas e lamínulas segundo Hasle e Fryxell (1970) para a identificação em contraste de fase com um microscópio modelo Zeiss 03-ED. Uma segunda lamínula

foi preparada com material não oxidado para preservar o material que se perde durante a oxidação. As identificações até o menor nível taxonômico possível foi feita usando bibliografias especializadas (CUPP, 1943; CROSBY & WOOD, 1958; LANDUCCI & LUDWING, 2005; ROUND, 2000; SAR *et al*., 2007; TOMAS, 1997; TENENBAUM, 2004, YAMAJII, 1984).

3 RESULTADOS

3.1 PARÂMETROS ABIÓTICOS:

3.1.1 Temperatura

O perfil vertical da temperatura relativa aos meses e ao longo das estações amostradas está representado na figura 2. Em geral as maiores temperaturas foram registradas na camada superficial com máximas de 21,50 à 28,66ºC nos periodos quentes de novembro a março. A máxima registrada de 28ºC ocorreu entre as estações E40 e E45 durante o mês de janeiro decrescendo em direção ao fundo com a formação da termoclina sazonal associada à ACAS. Em novembro foi observado um gradiente horizontal pouco acentuado no sentido da costa-oceano com temperaturas entre 21ºC–e 22ºC. O mês de junho foi caracterizado pelas menores temperaturas superficiais.

No plano vertical as estações mais rasas do transecto com menos do que 50m foram fisicamente mais homogêneas, exceto em janeiro quando uma termoclina sazonal bem definida foi detectada à aproximadamente 20 metros de profundidade. Valores mínimos entre 15,29 e 17,45ºC foram encontrados próximos no fundo caracterizando os domínios da ACAS sobre o assoalha da plataforma. A

profundidade da camada de mistura nas estações mais afastadas da costa com >50 m variou entre 30 - 40 m em janeiro, março e abril e 70 m em novembro e junho.

Durante o inverno foram observados núcleos sub-superficiais (~40 m) de águas aquecidas em relação à camada superficial entre as isóbatas de 60 e 140 m.

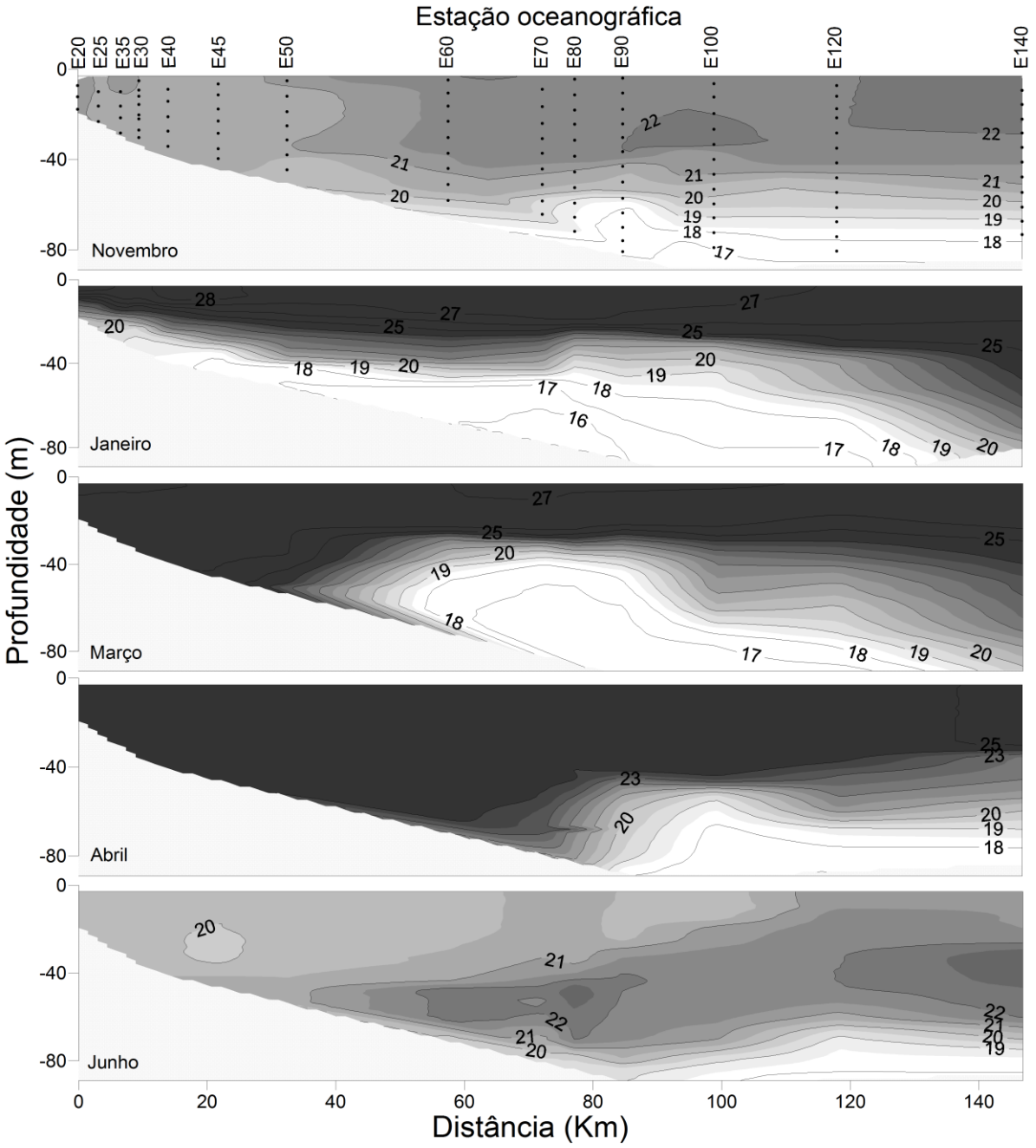

Figura 2: Distribuição sazonal da tempertura (ºC) ao longo da radial na plataforma de Santa Catarina.

3.1.2 MSC e Clorofila-a.

Nos MSC a porcentagem de luz incidente da superfície variou de 0,0004 à 34 % com média de 2,03 à 2,7 % entre os meses de coleta. Com base nos índices $Clor_s$: $Clor_f$ o limite superior médio dos MSCs foi de -20 à -33 m, e a espessura de 2 a 73 metros (TABELA 4).

O limite superior dos MSC em novembro esteve entre -11 e -30 metros entre as estações E40 e E100 e decresceu para -50 m na E130. Em janeiro o limite superior foi de -14 a -30 m ao longo da plataforma. A espessura foi de 10 a 67 m, exceto na E140, quanto o limite superior dos MSC esteve em -70 m e a espessura ultrapassou o limite de amostragem do equipamento. Os limites superiores variaram de -10 a -20 m entre as estações E25 e E90 em março. A espessura mínima (3m) ocorreu na estação mais rasa (E25) enquanto as demais variaram de 20 à 60 m. em abril MSC ocorreram a partir da E50 até a E140. Os limites variaram de -11 a -30 m com espessura variando de 7 m na E50 e de 40 a 73 nas demais estações. Em junho ocorreram MSC pouco pronunciados ao longo da plataforma entre as isóbatas de 25 e 50m com espessuras variando de 3 a 9 m sendo maiores no final da plataforma (FIGURA 3).

Tabela 4. Variações máximas, mínimas, médias e desvio padrão da porcentagem da luz incidente da superfície, limites superiores e espessura dos MSC na PCSE entre novembro e junho (2005 à 2006) .

Período	% PAR_s		Limite superior dos MSC (m)		Espessura MSC (m)	
	Min -Max	(Med±DP)	Min -Max	(Med± DP)	Min - Max	(Med. ± DP)
NOVEMBRO	0,01 - 14	(2,7 ± 3,06)	-10 - -50	(23 ± 13)	16 - 63	(42 ± 12)
JANEIRO	0,01 - 16	(2,7 ± 3,08)	-14 - -70	(25 ± 15)	10 - 67	(42 ± 20)
MARÇO	0,002 - 34	(2,03 ± 2,7)	-2 - -57	(33 ± 16)	3 - 57	(22 ± 13)
ABRIL	0,0004 - 14	(2,2 ± 2,8)	-10 - -29	(20 ± 7)	7 - 73	(46 ± 13)
JUNHO	0,004 - 17	(2,9 ± 2,9)	-10- -52	(20 ± 16)	2 - 66	(22 ± 23)

A concentração de clorofila nos MSC variou de 0,07 à 6,2 $mg.m^{-3}$ e foram mais pronunciados de janeiro à abril. A maior concentração média ocorreu em março. Maiores concentrações de clorofila foram associadas à porções internas e medianas sob a influencia da ACAS na camada de fundo. O MSC contribuiu para aumentar o valor médio de clorofila da AT em abril e junho (TABELA 5).

Tabela 5: Variação máxima, mínima, média e desvio padrão da clorofila-a ($mg.m^{-3}$) nos MSC e massas de água entre os meses de novembro de 2005 e junho de 2006.

Massa de água	Novembro	Janeiro	Março	Abril	Junho
AC	0,04 - 1,7*	0,05-14,8	0,08 - 4,2	0,01 -2,1	0,07 -4,9
	(0,1 ± 0,2)	(0,3 ± 0,7)	(0,2 ± 0,2)	(0,3 ± 0,3)	(0,2 ± 0,2)
ACAS	***	0,06-3,5	0,04 - 4,7	0,05 - 2	0,05 - 0,1
		(0,3 ± 0,3)	(0,6 ± 0,7)	(0,3 ± 0,3)	(0,09 ± 0,01)
AT	***	0,04- 0,31	0,02 - 0,2	0,04 - 2,6	0,03 - 0,6
		(0,07 ± 0,03)	(0,08 ± 0,03)	(0,1 ± 0,2)	(0,2 ± 0,09)
MSC	0,6 - 0,9	0,08 - 3,5	0,07 - 6,2	0,08 - 2,6	0,2 - 0,8
	(0,2 ± 0,1)	(0,3 ± 0,3)	(0,4 ± 0,5)	(0,3 ± 0,2)	(0,3 ± 0,3)

(*) Camada superficial ao longo da plataforma.

Maiores concetrações de clorofila (Max.= 1,7 $mg.m^{-3}$) ocorreram na superfície na plataforma interna entre as estações de E20 e E30 em novembro e decresceram em direção a quebra da plataforma. No plano vertical os MSC foram mais pronunciados entre E50 e E90 na plataforma média (FIGURA 3). A E60 apresentou

o maior gradiente vertical de clorofila variando de 0,04 mg.m^{-3} na superfície e 0,85 mg.m^{-3} em um núcleo sub-superficial entre 48 e 55 m de profundidade. Um segundo pico menos pronunciado de 0,37 mg.m^{-3} ocorreu entre 58 e 64 m foi registrado sobre a isóbata de 140 m (#E140).

MSC associados à ACAS foram registrados ao longo de todo o transecto amostral em janeiro. A concentração máxima de clorofila registrada foi 14,32 mg.m^{-3} na superfície ocupada pela na AC na porção interna da plataforma (entre E20 e E30). A média da AC em superfície foi de 0,3 mg.m^{-3}. MSC associados à ACAS com picos de 3,5 mg.m^{-3} ocorreram nos setores internos, enquanto concetrações máximas de 1,84 mg.m^{-3} foram registradas entre E40 e E80. Na porção externa da plataforma (100 – 140m) os MSC variaram de 0,51 à 0,73 mg.m^{-3}. A AT com concentração média de clorofila de 0,07 mg.m^{-3} esteve no extrato superior da E140.

Os MSC em março foram desenvolvidos na plataforma media e externa sob o domínio da ACAS entre as E90 e E120. Neste setor as concetrações máximas variaram de 4,38 e 6,2 mg.m^{-3}. A concentração média de clorofila na camada de mistura foi geralmente menor que no fundo. Na AC presente entre as E20 e E90 concentração média foi de 0,2 mg.m^{-3}, e nos setores externos dominados pela AT foi de 0,08 mg.m^{-3}, e nas profundidades domindas pela ACAS foi de 0,6 mg.m^{-3} (TABELA 9).

MSC ocorreram na plataforma média e externa associados a AC (E50 – E90) em abril (FIGURA 3). Foram registrados valores mínimos e máximos de 0,08 e 1,8 mg.m^{-3} em superfície enquanto a concentração média nos MSC foi de 0,3 mg.m^{-3} . A maior concentração no MSC (2,6 mg.m^{-3}) ocorreu em sub-superfície à 50 m de profundidade associado a ACAS na E100. A concentração média da AC foi de 0,3

mg.m^{-3}. Na porção interna da plataforma (entre E20 e E45) a concentração de clorofila na AC foi maior (0,2 a 2,1 mg.m^{-3}) que nos setores médios entre as isóbatas de 50 e 80 metros (0,01 à 0,8 mg.m^{-3}.). A clorofila chegou a 1,59 mg.m^{-3} na superfície da E60 e decresceu à 0.16 mg.m^{-3} até a E100. A AT ocupou a porção externa da plataforma (E120 – E140). Na superfície a variação de clorofila foi de 0,03 a 0,6 mg.m^{-3} , enquanto nos MSC associados à ACAS chegaram a 1,67 mg.m^{-3}.

A clorofila foi baixa na AC (média=0,02 mg.m^{-3}) em junho quando comparada aos outros meses. O mesmo foi observado para AT. Contudo, no setor externo da plataforma (E100- E140), um núcleo de MSC pouco desenvolvido (0,6 mg.m^{-3}) contribuiu para elevar a clorofila da AT .

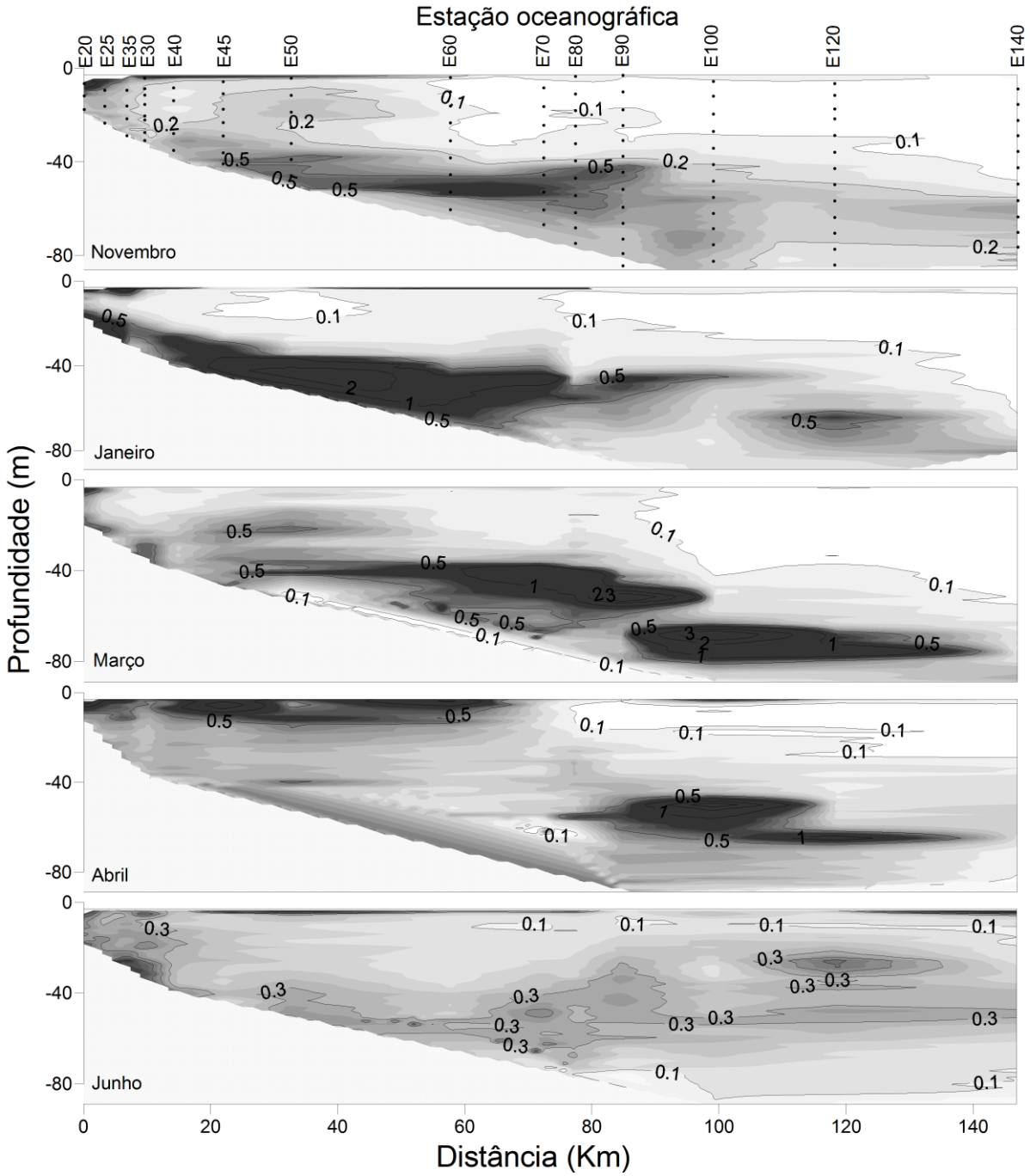

Figura 3: Distribuição sazonal da clorofila-a (mg.m^{-3}) ao longo da radial na plataforma de Santa Catariana.

3.2 PARÂMETROS BIOLÓGICOS

3.2.1 Composição, densidade e biomassa do fitoplâncton.

O fitoplâncton foi composto na ordem de abundância por diatomáceas, dinoflagelados, dictyochophyceas e filamentos cyanophyceas. Foram identificadas 103 espécies de diatomáceas, além de 30 morfotipos de penadas e 8 cêntricas (TABELA 4). As diatomáceas representaram de 29 a 99 % da densidade, e de 31 a 99 % da biomassa total do fitoplâncton. Em geral baixas contribuições relativas de diatomáceas foram associadas às menores densidade e biomassa do fitoplancton total.

As espécies mais freqüentes nos MSC durante o período de estudo foram *Aulacoseira granulata* (60%), *Coscinodiscus* sp1 (40%), *Cyclotella* styllorum (51%), *Cylindrotheca closterium* (46%), *Diploneis* cf. *bombus* (56%), *Pseudo-nitzschia* sp.1 (42%), *Thalassionema nitzschoides* (58%), *Thalassiosira* cf. *decipiens* (51%) e *Hemiaulus indicus* (36%), além do grupo das cêntricas e penadas não identificadas. Em geral a composição de espécies nos MSC foram as mesmas da superfície.

A concentração celular foi maior próximo à costa decrescendo em direção á quebra da plataforma. Entre novembro e março ocorreram picos com altas densidades entre as estações 40 e 100. Elevadas concentrações de carbono ocorreram ao longo da plataforma entre a E20 e E100 (isobatatas de 20 a 100m) entre novembro e março. As maiores concentrações de carbono foram associadas às diatomáceas cêntricas dos gêneros *Coscinodiscus* e *Thalassiosira* tanto na superfície quanto no fundo das estações.

Em novembro as associaçaos foram dominadas por *Skeletonaema costatum*, *Pseudo-nitzschia* spp.,*Thalassionema nitzschioides* e *Pleurosigma* spp. (E20-60). Entre E70 e E130 as associações foram de diatomáceas penadas não identificadas (p. ex. PNIsp19) além de *A. glanulata* e *Nitzschia* spp..

Em janeiro, as espécies mais frequentes entre as isóbatas costeiras de 20 à 30 metros foram *Hemiaulus indicus*, *Cylindrotheca closterium* e *Pseudonitzschia cf seriata*. Na plataforma media e externa (40-140 metros) as associações foram semelhantes, dominaram *P.* cf *seriata, A. granulata, Cylindrotheca closterium, Guinardia striata, Proboscia alata, Chaetoceros dydimus, Chaetoceros mensanensis, Chaetoceros peruvianus* e *T. nitzchioides*

Em março, a associação costeira entre 20 e 50 metros foi formada principalmente por *Chaetoceros compressus, Pseudonitzchia* cf. *seriata, C. closterium, Asterionella gracailis* e *A. granulata*. Entre 60 e 90 metros foram frequentes *H. indicus, Fragillariopsis doliolus* e uma diatomacea penada não identificada (PNI sp10). Na plataforma externa entre 100 e 140 metros o fitoplâncton foi dominado principalmente por *Thalassiosira* sp3, *Pleurosigma* e *Paralia sulcata*, e na superfície foram comuns penadas nanoplanctônicas e *A. granulata.*

Em abril a associação costeira entre as isóbatas de 20 e 30 metros foi formada principalmente por *Asterionella glacialis, Pseudonitzschia* sp1, *Guinardia striata* e *T. nitzschioides*. Entre 35 e 90 metros forma de *Chaetoceros spp, Pleurosigma spp, Diploneis* spp*, Thalassiosira cf nanolineata* além de penadas nanoplanctônicas e cêntricas com pequenas dimensões. Entre 100 e 140 *Nitzchia bicapitata, Pseudinitzchia* spp e penadas não identificadas foram freqüentes entre as associações.

Em junho a associação fitoplanctônica foi formada por *T. nitzschioides*, *Diploneis* spp e *Thalassiosira* sp3, *Thalassiosira cf decipines*, *Chaetoceros* spp e *Tryblionella* spp além das penadas e cêntricas não identificadas.

Tabela 6. Lista de espécies e morfotipos de diatomáceas que ocorreram nas amostras de fitoplâncton quantitativo entre novembro e junho de 2005-06. A análise da distribuição foi baseada em Olguin et al. (2006) e Tomas (1997). N, nerítico; O, oceânico; A, dulcícola; L, litoral; Co, cosmopolita, Temp, temperado; Trop, tropical; SubA, Subantarica (Olguin *et a*l., 2006).

Actinocyclus spp.		*Gyrosigma cf balticum* (Ehremberg) Cleve	L.
Actinoptychus senarius (Ehr.) Ehremberg	N; Co	*Haslea spp.*	
Amphora spp.	A.	*Hemiiaulus hauckii* Grunow	N, Temp.
Asterionella glacialis (Castr.)Round	N.	*Hemiiaulus indicus* Karsten	
Asteromphalus flabellatus (Breb.) Greville	N; Trop.	*Hemiiaulus membranaceus* Cleve	Trop.
Asteromphalus sarcophagus Wallich	Trop.	*Hemidiscus cuneiformis* Wallish	
Aulacoseira granulata (Ehrenberg) Ralfs	A; Trop	*Hyalodiscus stelliger* Bailey	N.
Bacillaria paxillifera (O.F. Müller) Hendley		*Leptocylindrus danicus* Cleve	Co.
Bacteriastrum hyalinum Lauder	N;Co	*Leptocylindrus mediterraneus* (Pergallo) Hasle	Co.
Bacteriastrum hyalinum var. *principes* (Castracane) Ikari	N/O	*Leptocylindrus minimus* Gran	cosm
Bacteriastrum varians Lauder		*Lioloma pacificum*	Temp.
Biddulphya spp.		*Mastogloia spp.*	
Caloneis spp.		*Melosira sp.*	
Chaetoceros cf. decipiens Cleve	N/O; Co	*Meuniera membranacea* (Cleve) P. C. Silva	
Chaetoceros compressus Lauder		*Navicula sp1*	
Chaetoceros coarctatus Lauder	O, Trop.	*Navicula sp2*	
Chaetoceros didymus Ehrenberg	N; Temp.	*Navicula sp3*	
Chaetoceros eibenii Grunow		*Navicula sp4*	
Chaetoceros cf lorenzianus Grunow	N; Trop.	*Navicula sp5*	
Chaetoceros essanensis Castracane	O, Trop.	*Navicula spp*	
Chaetoceros peruvianus Brightwell	N, Temp.	*Nitzschia cf bicapitata*	O, Temp.
Chaetoceros sp1.		*Nitzschia sp1*	

Chaetoceros spp		*Nitzschia spp*	
Climacodium frauenfeldianum Grunow	O, Trop	*Paralia sulcata* (Ehremberg) Cleve	N. Co.
Corethron cf hystrix Hensen	O, Temp.	*Plagiograma cf tenuistriatum*	L
Cocconeis spp.		*Plagiotropsis spp.*	
Coscinodiscus centralis Ehremberg	O; Co	*Probocia alata* (Brightwell) Sundström	
Coscinodiscus granii Gough	N; Co	*Pseudonitzschia* sp1	
Coscinodiscus joneisianus (Greville) Ostenfeld	L; Co	*Pseudonitzschia cf seriata* (Cleve) Peragallo	Temp.
Coscinodiscus sp1		*Rhaphoneis spp.*	
Coscinodiscus sp2		*Pseudosolenia calcar-avis* (Schulze) Sundström	N/O; Temp
Coscinodiscus sp3		*Rhizosolenia cf. curvata* Zacharias	SubA*
Coscinodiscus sp4		*Rhizosolenia cf imbricata* Brightwel	N, Co
Coscinodiscus sp5		*Rhizosolenia robusta* Norman	N
Coscinodiscus sp6		*Rhizosolenia setigera* Brightwel	N, Co.
Coscinodiscus wailesii	Co	*Rhizosolenia sp.1*	
Cyclotella spp		*Rhizosolenia spp*	
Cyclotella stylorum Brightwell		*Skeletonema costatum* (Greville) Cleve	Co
Cylindrotheca closterium (Ehr.)Reiman & Lewis	Co	*Stephanopyxis turris*	N, Temp.
Cymatonitzschia marina (Lewis) Simonsen		*Surirella spp.*	
Dactyliosolen fragilissimus (Bergon) Hasle	Co	*Terpsinoë* sp.	
Delphyneis spp		*Thalassionema nitzschioides* (Grunow) Mereschkowsky	N, Co
Detonula pumila (Castracane) Gran	N; Co.	*Thalassiosira cf decipiens* (Grunow) Jorgensen	N.
Diploneis cf. bombus (Ehrenberg) Cleve	O; SubA	*Thalassiosira cf eccentrica* (Ehremberg) Cleve	N, Co
Diploneis smithii (Brebisson) Cleve		*Thalassiosira cf nanolineata* (Mann) Hasle & Fryxell	
Diploneis spp		*Thalassiosira punctigera* Fryxel, Simonsen & Hasle	N/O.
Dytilum brightwellii (West) Grunow	N, Co	*Thalassiosira subtilis* (Ostenfeld) Gran	O, Temp.

Eucampia zodiacus Ehrenberg		*Thalassiosira* sp3	
Eucampia spp		*Thalassiosira spp.*	
*Lyrella spp.**		*Thalassiothrix cf frauenfeldii* (Grunow)Hallegraeff	Temp.
Fragilariopsis doliolus (Wallish) Medlin & Sims	O, Trop.	*Triceratium favus* Ehremberg	L
Guinardia striata (Stoltenforth) Hasle	Co	*Tryblionella spp.*	
Guinardia delicatula	N; Temp.		

A tabela 7 relaciona as massas de água com valores máximos e mínimos de densidade e biomassa do fitoplâncton na superfície e MSC. Maiores biomassas ocorreram de novembro a março justamente quando a os MSC associados à ACAS ocuparam os setores internos e médios da plataforma. Os menores valores ocorreram em junho. O mesmo padrão pôde ser observado em relação à densidade, e em todas as massas de água. A biomassa de 100 µgC.L^{-1} referente à AT em março ocorreu em um núcleo anômalo desta massa no fundo sobre a isóbatas de 50 m.

Tabela 7. Biomassa e densidade mínima e máxima nos diferentes domínios oceanográficos entre novembro de 2005 e junho de 2006.

Massa de água	Período de tempo	Densidade (x10^{5}céls.L^{-1})		Biomassa (µgC.L^{-1})	
		S	MSC	S	MSC
N.I.	Novembro	0,1 - 8	0,06 - 69	2,6- 72	1,2 - 75
AC	Janeiro	0,2 - 2,1		10 -162	
	Março	0,09 - 2,5	0,8 -0,3	4,2 -60	4 - 109
	Abril	0,003 - 1,4	0,02 - 0,1	0,8 - 68	0,2 - 34
	Junho	0,007 - 0,09	0,007 - 0,09	0,3 – 1,3	0,3 – 1,2
ACAS	Janeiro		0,07 - 9,7		0,5- 511
	Março		0,02 - 0,4		0,5 - 78
	Abril		0,03 - 0,09		0,6 - 6
AT	Janeiro	0,06	0,06	1,6	7,2
	Março	0,005- 0,2	0,3	0,6 - 3	100
	Abril	0,01 - 0,2		0,5 - 5,9	
	Junho	0,01		0,2	

Em novembro A densidade celular de diatomáceas variou de 0,06 à 69 .10^5céls.L^{-1}) e a biomassa de 75 à 1,2 µgC.L (FIGURA 4) . As baixas densidades e elevadas biomassas tanto nos MSC como na superfície em geral foram devido à presença de diatomáceas cêntricas do gênero *Coscinodiscus* spp (0,7 à 40 µgC.L^{-1}) e *Thalassiosira* spp (0,4 à 27 µgC.L^{-1}). Exceto no MSC da E70 onde uma penada PNI sp19 com pequenas dimensões (33μm^3) foi responsável por 63 µgC.L^{-1}. *Skeletonema costatum* dominou a densidade na AC da plataforma interna chegando à 0,6 .10^5céls.L^{-1} e 22 µgC.L^{-1} .

Em janeiro a biomassa dos MSCs variou quatro ordens de magnitude (0,2 à 510 µgC.L^{-1}), enquanto a densidade mínima e máxima foi 0,06 e 9 .10^5céls.L^{-1}). *Coscinodicus wailesii* e *Coscinodiscus centralis* representaram de 20 à 96% da biomassa total ao longo da plataforma. As estações internas (E20 – E30) foram dominadas por *Hemiaulus indicus* com densidades de 0,1 à 1,6 .10^5 cel.L^{-1} e biomassa de 7 a 18 µgC.L^{-1} com valores máximos na AC superficial. A diatomácea dulcícola *A. granulata* foi freqüente ao longo do transecto na superfície (0,08 à 0,7 .10^5céls.L^{-1}) e no MSC entre 0,08 e 0,1 . .10^5céls.L^{-1}.

Em março a densidade e a biomassa mínima e máxima variaram de 0,001 à 2,5 10^5 cel.L^{-1} e de 0,3 a 108 µgC.L^{-1} . *A. granulata* destacou-se também em março na superfície (0,07 a 0,1 .10^5céls.L^{-1}) e no MSC (0,03 à 0,8 .10^5céls.L^{-1}). Em abril a densidade e a biomassa mínima e máxima variaram de 0,01 à 1,4 .10^5céls.L^{-1}e de 0,07 a 68 µgC.L^{-1}. Em junho a densidade e a biomassa mínima e máxima variaram de 0,005 a 0,09 µgC.L^{-1} e de 0,2 a 0,6 µgC.L^{-1} (FIGRUA 4). As associações de diatomáceas nesses meses foram de espécies raras ou pouco abundantes. Em geral, os máximos de biomassa se relacionaram com espécies cêntricas e no plano vertical as associações da superfície correspondem àquelas do MSC. Destacaram-se *Asterionella graciallis, Chaetoceros compressus* e *Pseudo-nitzchia* sp1 no setor interno da plataforma entre março e abril. Em março as espécies nerito-estuarianas *Paralia sulcata* e *Cyclotella styllorum* destacaram-se nos MSC entre E100 e E120.

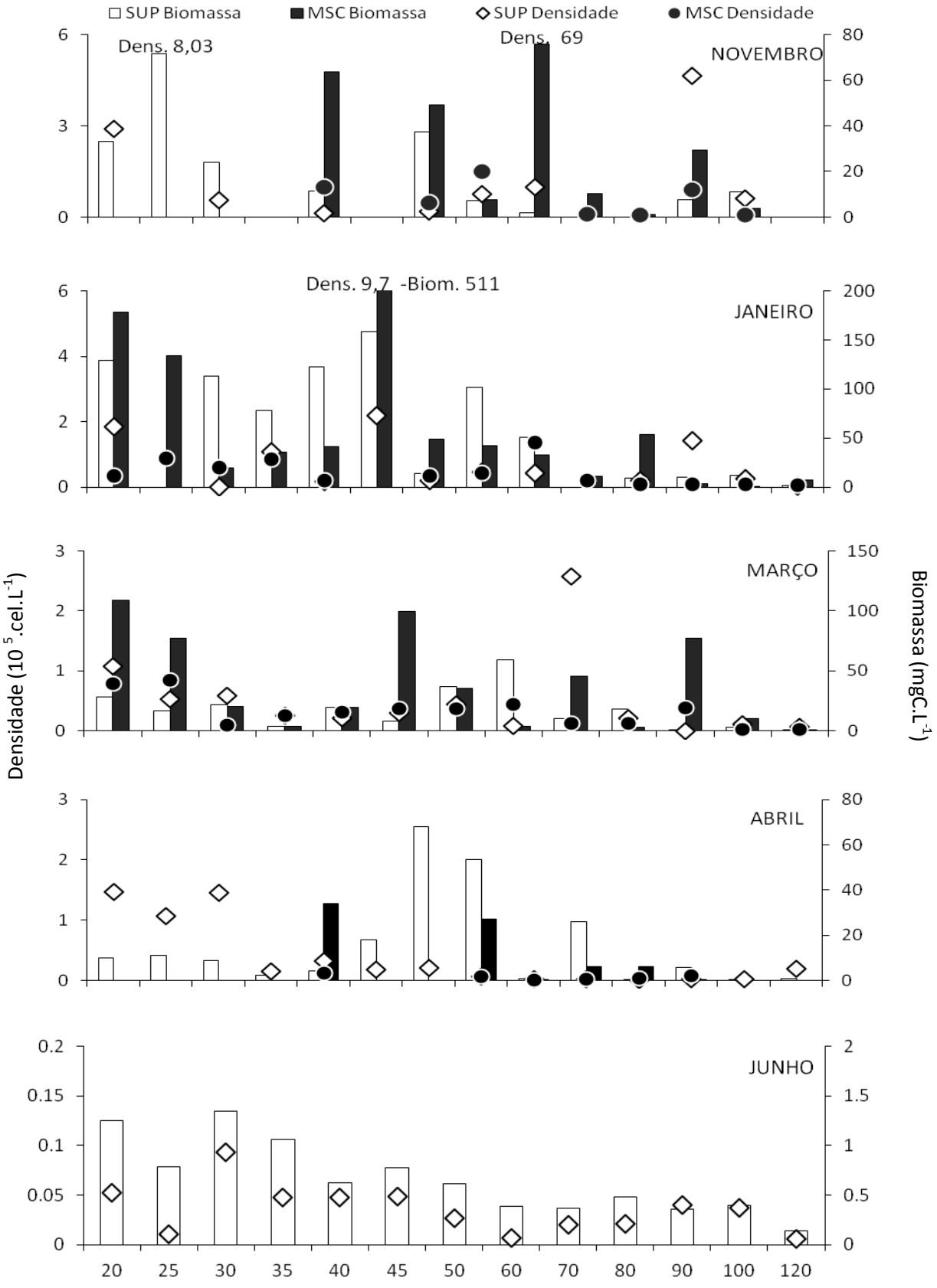

Figura 4: Variação sazonal da densidade e biomassa de diatomáceas entre a superfície e fundo ao longo do gradiente batimétrico da plataforma de Santa Catarina entre 2005-2006. Note a variação na escala dos eixos verticais entre os meses.

4 DISCUSSÃO

3.3 DISTRIBUIÇÃO DA CLOROFILA EM RELAÇAO À MASSA DE ÁGUA.

Como esperado, a concentração de clorofila foi menor na porção externa da PSCE ocupada pela AT oligotrófica transportada pela CB durante os meses de novembro à abril (<0,1 $mg.m^{-3}$). Odebrecht e Djurfeldt (1996) e Brandini (1990) observaram valores semelhantes estudando a distribuição da clorofila na AT nos períodos de primavera (<0,2 $mg.m^{-3}$) e verão (0,05 à 0,3 $mg.m^{-3}$), respectivamente. Durante o inverno a concentração de clorofila foi maior (~ 0,3 $mg.m^{-3}$) na camada intermediária ocupada pela AT quando comparada a mesma massa de água em amostragens anteriores. Da mesma forma, a concentração concordou com os valores em torno de 0,2 $mg.m^{-3}$ observados por Brandini (1990) na plataforma de Santa Catarina e os observados por Aidar *et al.* (1993) entre 0,31-0,37 $mg.m^{-3}$ ao largo da cidade de Ubatuba (SP) durante o inverno.

Apesar de baixas, as concentrações de clorofila na AT são variáveis, independente da estação do ano, porém sempre com concentrações menores que a AC, tendo em vista as baixas concentrações de nutrientes típicas de águas oligotróficas transportadas pela CB (BRANDINI, 1990; CASTRO *et al*., 2006; BRAGA & NIENCHESKI, 2006). Enquanto a intensificação dos processos de mistura entre a ACAS, AC e AT nas porções medianas e externas da plataforma pode ter contribuído para o acréscimo de clorofila na AT durante o mês de junho (AIDAR *et al.,* 1993).

Como observado por Brandini (1990) e Brandini *et al.* (2007) as porções internas e medianas da PCSE teve um padrão complexo de circulação afetado tanto

por águas oceânicas como costeiras de origens diferentes. Águas subantárticas da corrente das Malvinas alcançam a porção mais ao sul da costa de Santa Catarina durante o inverno (PIOLA *et al.,* 2000) trazendo nutrientes da Bacia do Prata e da Lagoa do Patos (GAETA & BRANDINI, 2006). Elevadas concentrações de biomassa fitoplanctônica em termos de clorofila-a foram associadas à essa massa de água fria e menos salina (GAETA E BRANDINI, op cit). No presente estudo a AC foi identificada durante o inverno como uma massa de água mais densa e salina quando comparada aos períodos anteriores sugerindo a presença da FSP na camada superficial em junho (PIOLA *et al*., 2000; NETTO-JUNIOR, 2008). Contudo a baixa concentração de clorofila observada ao longo da AC no cruzeiro de inverno pode estar associada à estiagem excessiva registrada em junho de 2006 (INPE/CPTEC, 2006). Provavelmente menores quantidades de nutrientes entraram no sistema a partir da Bacia do Rio da Prata e mesmo que a FTP tenha sido observada durante o inverno esta massa pode ter chego até a área de estudo esgotada por nutrientes, sobretudo nitrato como observado por Brandini (1990).

A AC foi responsável por elevadas concentrações de clorofila na camada de mistura que foi rasa próxima à costa em geral entre 4 e 8 metros como observado entre novembro e março. O decréscimo de clorofila no sentido costa-oceano observado nestes períodos pode estar relacionado com a diluição da AC pela AT na superfície (AIDAR *et al.*, 1993).

A intensificação da mistura na porção rasa da plataforma entre as isóbatas de 20 à 60 metros em abril contribuiu para aumentar a extensão da camada de mistura superficial ocupada pela AC. De certa forma a re-suspensão de sedimentos causada por processos de mistura também diminue a extensão da zona eufótica na coluna de água como mencionado por Brandini *et al*. (2007).

Ainda que a concentração de clorofila na plataforma interna tenha sido alta na superfície ocupada pela AC, no plano vertical as concentrações de clorofila foram maiores nos MSC localizados na base da zona eufótica e abaixo da picnoclina quando comparados com as concentrações na zona de mistura superficial. A secção vertical da distribuição de clorofila entre os períodos sazonais amostrados mostrou a evolução seqüencial do desenvolvimento seguido da dispersão das manchas sub-superficiais na base da zona eufótica ocupada pela ACAS.

Coincidentemente a posição da formação da mancha sub-superficial mais pronunciada esteve relacionada à ascensão da ACAS, entre as isóbatas de 80 e 90 metros em resposta à topografia do fundo. A isoterma de 20ºC ascendeu de 50 metros em novembro à 30 metros em janeiro e março. No final da primavera e início do verão esta mancha estava pouco desenvolvida. O pico de concentração de clorofila ocorreu entre os meses de janeiro e março, períodos de maior estabilidade física e estratificação vertical, quando a ACAS estendeu-se até a porção mais interna da plataforma. A dispersão desta mancha foi observada com o aumento dos processos de mistura nas porções internas da plataforma e recuo da FTP para os setores medianos em abril e para os setores externos em junho. Segundo Brandini (1990), em estudos pretéritos na plataforma sul-sudeste do Brasil, nas regiões distantes da costa a extensão da zona eufótica é, em média, de 50 metros ~~de~~ em qualquer estação do ano. A ascensão da nutriclina associada à elevação da ACAS a profundidades inferiores a 30 metros demonstra a ocorrência de um evento de ressurgência parcial na qual o desenvolvimento do fitoplâncton é favorecido na porção inferior da zona eufótica.

O desenvolvimento dos MSC entre 60 e 80 metros de profundidade na porção externa da plataforma sobre as isóbatas de 100 e 140 metros ocorreu de janeiro à

abril, mas o pico de concentração de clorofila foi em março. A dispersão desses núcleos na plataforma externa ocorreu após a homogenização física da coluna de água em junho, como observado nas porções internas e medianas da plataforma.

Brandini (1988) verificou que os MSC próximos a quebra da plataforma estão associados às sugeriram altas taxas de fotossíntese devido às altas concentrações de oxigênio produzida por populações fitoplanctônicas adaptadas a baixos níveis de luz à 50 metros de profundidade com intensidade luminosa entre 1 à 5% da luz incidente na superfície (Brandini, 1988). Neste estudo a média de radiação ao longo de toda espessura dos MSC se manteve ente 2% em toda a plataforma confirmando a ocorrencia de células adaptadas a baixos níveis de luz.

3.4 COMPOSIÇÃO DO FITOPLÂNCTON NOS MSCs.

A análise da composição de espécies do microplâncton revelou que o fitoplâncton é formado principalmente por diatomáceas neríticas e oceânicas, características de águas tropicais e subtropicais. A composição das espécies de diatomáceas concordou com estudos prévios feitos na área de estudo e regiões adjacentes na PCSE (ODEBRECHT & DURFELDT, 1995; BRANDINI & FERNANDES, 1996; BRANDINI, 1990; BRANDINI, 1986; BRANDINI, 1988B; FERNANDES & BRANDINI, 2004; FERNANDES & BRANDINI, 1999, BRANDINI ET AL; 2007, AIDAR *et al*, 1993, BRANDINI & MORAIS, 1986; OLGUIN *et a*l., 2006, GAETA, 1999) exceto pela freqüência e abundância de *A granulata* entre o final da primavera/ início do outono, e o floresciemento *de H. indicus* próximo à costa em janeiro, e entre as isóbatas de 60 e 90 metros em março.

A. granulata é dominante em ambientes dulcícolas sobretudo no verão (YACOBY, 2006; GROVER & CHRZANOWSKI, 2006) e frequente em águas

continentais das regiões sul e sudeste do Brasil (VILAC et al., 2008; LANDUCCI & LUDIWIG, 2005). Contudo resiste a eurihalinos de forma que é encontrada também em lagunas e estuários do sul (ODEBRECHT,1998; PROCOPIAK *et al.*, 2006) É freqüente em sedimentos da plataforma ao largo de grandes estuários como os do rio Amazonas (RIBEIRO *et al.,* 2008) e do Rio da Prata (ROMERO & HANSEN, 2002). A ocorrência e desenvolvimento de *A. granulata* em amostras oceânicas é uma incógnita, e deve ser mais bem investigada, pois indica que a salinidades alta não limita o crescimento desta diatomácea em águas marinhas. Caso isso venha a ser comprovado, a ocorrência de *A. granulata* em altas densidades em águas neríticas da PCSE pode ser uma excelente indicação de descargas continentais acima da média.

Valentin *et al.* (1985) relataram o florescimento de *Hemiaulus sinensis* próximo à ressurgência de Cabo Frio nas águas quentes superficiais acima da termoclina. O mesmo foi observado na plataforma interna de Ubatuba quando a ACAS se estabilizou no fundo próximo à isóbata de 15 metros (ZILAMANN, 1990), e na sub-superfície de um vórtice ciclônico próximo a isóbata 100 metros na plataforma de SP (GAETA, 1999). Na plataforma de Santa Catarina ocorreu um cenário semelhante caracterizado pelo florescimento de *H. indicus* cujas células, no entanto, são menores do que *H sinensis*. As maiores densidades ocorreram quando a ACAS avançou na área de estudo em direção à costa em janeiro, justamente o período de maior estabilidade física. Altas densidades também foram observadas em março principalmente na zona de mistura sobre a FTP. Ainda que estes dados não sejam suficientes para associar este gênero à posição da ACAS na camada de fundo são fortes indícios da estabilidade térmica e aumento produtivo associado à esta massa de água que devem ser mais bem estudados.

Odebrecht et al. (1995) fracionaram a clorofila fitoplanctônica na plataforma próximo ao Cabo de Santa Marta durante a primavera. Seus resultados sugeriram que as espécies nanoplanctônicas (<20um) são mais abundantes na superfície, enquanto células do microplâncton (>20um) dominam os MSC na base da zona eufótica, principalmente *Coscinodiscus* spp e *Thalassiosira* spp. Cerca de 85% da clorofila foi atribuída às células grandes com concentração de clorofila de duas à três ordens de magnitude maior tanto na superfície quanto em sub-superfície (ODEBRECHT & DURFELDT, 1995). De certa forma, aqueles dados concordaram com a distribuição da biomassa de diatomáceas observado no presente estudo. Ainda que a densidade celular do nanoplâncton tenha sido alta, a maior biomassa em termos de carbono foi atribuída às células grandes, principalmente *Coscinodiscus* spp (não é wailesii?) e *Thalassiosira* spp, com o máximo de duas ordens de magnitude (345,7 $\mu gC.L^{-1}$) maior no verão quando comparado com o máximo obtido no inverno (1,03 $\mu gC.L^{-1}$).

Infelizmente o intervalo amostral adotado nas coletas impossibilitou a análise da evolução dos *patches* de microalgas formados ao longo da coluna de água e da plataforma, dando a impressão de picos isolados de altas densidades e biomassa ao longo da radial. A composição específica das diatomáceas variou nitidamente ao longo do gradiente hidrográfico no sentido costa-oceano em todos os períodos sazonas amostrados.

A dominância de *S. costatum* em novembro provavelmente deve estar associada às florações de primavera freqüentemente observadas em regiões estuarinas e costeiras (BRANDINI, 1985, REZENDE & BRANDINI, 1997) e que contribuem para a composição fitoplanctônica da plataforma ao serem transportadas pela drenagem continental que é maior no verão coicidindo com o período chuvoso.

As altas taxas de crescimento específico, associadas às adaptações à condições variáveis de salinidade em épocas quentes e com elevada precipitação e, conseqüentemente, a maior disponibilidade de nutrientes, favorece o crescimento e dominância desta espécie sobre as demais (BRANDINI, 1985, RÖRIG *et al*, 2004). É interessante notar a mudança na contribuição relativa da comunidade nos setores da plataforma mais afetados pela ACAS (#70 à 130), principalmente em relação ao florescimento de espécies menores. Diatomáceas nanoplanctônicas têm vantagens na captura de nutrientes devido à menor razão superfície/volume o que aumenta as taxas de crescimento (HARRIS, 1986). Os resultados deste trabalho sugerem a ocorrência de florações de células pequenas no início do período de estratificação física sobretudo nos setores sobre influência da ACAS. Brandini *et al*. (2007) comprovaram que o início da estratificação vertical induz o desenvolvimento de MSC durante a primavera próximo à isóbata de 50 metros na plataforma do Paraná. O mesmo foi observado em novembro entre as isóbatas de 60 e 80 metros ao largo de Santa Catarina. Ainda que estes dados não sejam suficientes para suportar tal afirmação, são fortes os indícios do acúmulo de biomassa fitoplanctônica em termos de carbono celular devido à entrada de nutrientes novos na base da zona eufótica.

Em janeiro, a ACAS contribuiu mais expressivamente para o acúmulo de biomassa sub-superficial, pois avançou até a isóbata de 20 metros. A ascensão da termoclina durante o verão diminuiu a camada de mistura superficial que se manteve entre 4 e 18 metros ao longo da plataforma. Este processo físico facilita o transporte de nutrientes para a zona eufótica, e contribui também para o acúmulo de biomassa na camada de mistura associado às águas férteis das descargas continentais (AC).

Em março, as maiores biomassas registradas ao longo do transecto foram relativas à presença de *Coscinodiscus wailesii* principalmente nos setores internos e

medianos da plataforma. Fernandes e Brandini (2004) analisaram a variação sazonal de diatomáceas na plataforma do Paraná e associaram as baixas densidades e altas concentrações de clorofila observadas à ocorrência de *C. wailesii* em abril. De certa forma o mesmo foi observado em março neste estudo uma vez que baixas densidades e elevadas biomassas foram devido à ocorrência desta espécie tanto na superfície como no fundo.

Provavelmente a passagem de frentes frias e o aumento dos processos de mistura turbulento iniciados em março e intensificados em abril tenham contribuído para o crescimento de *Asterionella glacialis* nas zonas costeiras da plataforma entre março e abril, uma vez que o ciclo de vida desta espécie depende principalmente da ressuspensão de sedimentos (RÖRIG, *et al,* 2004). Ainda que a concentração de clorofila sub-superficial tenha sido alta em abril a concentração de frústulas quebradas (principalmente na estação 90) foi maior nas amostras do fundo quando comparada aos meses anteriores. Os dados de clorofila foram tomados com um perfilador de fluorecência natural de forma que não foi possível a distinção da clorofila fitoplanctônica de detritos clorofilados.

A estiagem excessiva registrada em junho de 2006 pode ter sido responsável pela menor fertilização das áreas costeiras a partir de águas da Bacia do Prata. Infelizmente a análise da concentração de nutrientes das massas de água não fez parte dos objetivos deste estudo para afirmar tal hipótese. Porém a menor concentração de clorofila relacionada às baixas densidades e biomassa fitoplanctônica são fortes indícios deste fenômeno.

5 CONSIDERAÇÕES FINAIS

A dinâmica espacial e sazonal dos MSCs sobre a plataforma continental ao largo de Santa Catarina, bem como sua estrutura taxonômica, foi analisada e discutida pela primeira vez nesse trabalho e revelou informações relevantes sobre a estrutura do fitoplâncton associado aos MSCs do ecossistema da plataforma continental da região sueste-sul do Brasil. Um dos aspectos mais importantes é a formação independente de dois núcleos de produção fitoplanctônica no nível da termoclina: Um nos setores internos e medianos entre as isóbatas de 20 e 100 metros, e outro externo e mais profundo próximo da quebra da plataforma.

Diatomáceas dominam em sistemas eutróficos marinhos baseados em produção nova e representam uma dieta importante para herbívoros planctônicos e larvas de peixe de interesse comercial como sardinhas e anchovas. Desta forma, vale ressaltar a participação deste grupo na formação dos MSC principalmente nos setores internos e médios da plataforma. O acúmulo de biomassa em células grandes, bem como a maior densidade específica confirma que nem toda a produção primaria foi consumida na teia trófica e, portanto contribuem para exportação de matéria orgânica para o sedimento. O fluxo vertical de MOP e o acoplamento do bento-pelágico devem ser mais bem avaliados em trabalhos futuros tendo em vista o papel desses MSC principalmente nas porções costeiras e medianas da PSCE.

Outro aspecto que deve ser considerado é a natureza de formação destes MSC. Ainda que a amostragem do fitoplâncton possa ter sido mascarada pela ação de ondas internas em sub-superfície, em diversas ocasiões neste estudo ficou evidente que nem sempre o aumento de clorofila nos MSC representou o aumento real de

biomassa fitoplanctônica, sobretudo em relação á zona de mistura superficial. Portanto, o aumento intracelular de clorofila, comum em comunidades adaptadas a baixas intensidades de luz e a concentração maior de detritos clorofilados podem também ter contribuído para a formação desses núcleos além do crescimento e acúmulo da biomassa em termos de carbono, sobretudo no período de maior estratificação.

Ainda, o papel funcional dos núcleos de clorofila sub-superficial mais profundos e próximos à quebra da plataforma continental, bem como o caráter mais regenerativo destes MSC e a capacidade limitada de exportação de matéria orgânica devem ser melhor avaliadas. Neste caso, o fitoplâncton tende a ser dominado por formas flageladas e diatomáceas nanoplanctônicas adaptados à menores intensidades de luz que as porções médias e internas da plataforma porém com condições nutricionais favoráveis.

Estudos sobre a dinâmica espacial e sazonal dos MSC são raros em nosso país. Para melhor avaliar o seu papel no funcionamento do ecossistema da PCSE do Brasil serão necessários estudos *in situ* específicos sobre a fisiologia dessas algas “de sombra” adaptadas à sub-superficie, bem como sua capacidade de exportação através do uso de armadilhas de sedimento abaixo da termoclina.

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7 APÊNDICES

7.1 Dados biológicos

7.1.1 Densidade

Cruzeiro	isóbata	Prof	AC SEN 7R	AP SPP 6L	AM SPP 7I	AM FOR 9	AS GLA 7P	AT FLA 7R	AT SP1 7R
I	100	5	0	0	467.49891	0	0	0	0
I	100	50	0	0	0	0	0	0	0
I	130	5	0	0	0	0	0	0	40
I	130	73	0	0	0	0	0	0	0
I	20	5	120	0	0	0	0	0	0
I	25	5	0	0	0	0	0	0	0
I	30	5	0	0	1200	0	0	100	0
I	40	40	0	0	1346.6638	0	0	0	0
I	40	5	0	0	0	0	0	20	0
I	50	40	0	0	100	0	0	50	0
I	50	5	0	623.33188	133.33333	0	0	0	0
I	60	5	0	0	0	0	0	40	0
I	60	50	0	0	0	0	0	0	0
I	70	5	0	0	0	0	0	0	0
I	70	50	25	0	50	0	0	0	0
I	80	50	40	0	40	0	0	20	0
I	90	50	0	0	0	0	0	0	0
II	100	42	0	0	0	0	0	0	0
II	100	5	0	0	51.282051	0	0	0	0
II	120	5	0	0	60	0	0	0	0
II	120	60	0	0	0	0	0	0	0
II	140	5	0	0	20	0	0	0	0
II	140	80	80	0	0	0	0	0	0
II	20	18	0	0	0	0	0	0	0
II	20	5	0	0	0	0	0	0	0
II	25	20	169.26685	0	0	0	0	0	0
II	30	20	0	0	0	0	0	0	0
II	30	5	0	0	0	0	0	0	0
II	35	30	114.28571	0	5342.8446	0	0	57.142857	0
II	35	5	0	0	0	0	0	0	0
II	40	25	0	0	467.49891	0	0	0	0
II	40	5	0	0	0	0	0	0	0
II	45	40	57.142857	0	57.142857	0	0	0	0
II	45	5	514.28571	0	0	0	0	0	0
II	50	35	0	0	985.36372	0	0	0	0
II	50	5	0	0	0	0	0	0	0
II	60	5	0	0	0	0	0	0	0
II	60	50	0	1869.9956	0	0	0	0	0
II	70	42	0	0	0	0	0	0	0
II	70	5	40	0	0	0	0	0	0
II	80	50	0	0	623.33188	0	0	0	0
II	90	35	0	0	0	0	0	0	0
II	90	5	0	0	0	0	0	0	0
III	100	5	0	0	0	0	0	0	0
III	100	65	2200	0	200	0	0	0	0
III	120	5	0	0	2009.9956	1869.9956	0	0	0
III	120	72	0	0	0	0	0	0	0
III	140	5	0	0	0	0	0	0	0
III	140	80	0	0	0	0	0	0	0
III	20	5	40	0	0	0	5609.9869	0	0

III	25	22	1000	120	0	0	7496.6506	0	0
III	25	5	40	0	40	0	0	0	0
III	30	25	0	0	0	0	7839.9825	0	0
III	30	5	0	0	0	0	2770.3639	0	0
III	35	26	20	0	80	0	0	0	0
III	35	5	0	20	0	0	0	0	0
III	40	15	0	0	0	0	0	0	0
III	45	5	0	0	20	0	0	0	0
III	45	5	20	0	0	0	0	0	0
III	50	40	0	40	0	0	0	0	40
III	50	5	0	0	0	0	0	0	0
III	60	40	0	0	0	0	0	0	0
III	60	5	0	0	40	0	0	0	0
III	70	37	0	0	20	0	0	0	0
III	70	5	0	0	0	0	0	0	0
III	80	40	20	0	20	0	0	0	0
III	80	5	0	0	44.444444	0	0	0	0
III	90	49	0	0	0	0	0	0	0
III	90	5	0	0	0	0	0	0	0
IV	100	5	0	0	0	0	0	0	0
IV	100	50	0	0	20	0	0	0	0
IV	120	5	0	0	0	0	0	0	0
IV	120	67	0	0	0	0	0	0	0
IV	140	5	0	0	0	0	0	0	0
IV	140	60	0	0	0	0	0	0	0
IV	20	5	0	0	0	0	7479.9825	80	0
IV	25	5	0	0	0	0	33659.921	0	0
IV	30	5	0	0	0	0	52359.878	0	0
IV	35	5	0	0	0	0	1869.9956	0	0
IV	40	5	0	0	0	0	40	0	0
IV	45	5	0	0	0	0	0	0	0
IV	50	11	0	0	0	0	0	0	0
IV	50	5	20	0	0	0	0	0	0
IV	60	5	40	0	0	0	0	0	0
IV	70	5	0	0	0	0	0	0	0
IV	80	5	0	0	0	0	0	0	0
IV	80	52	0	0	40	0	0	0	0
IV	90	5	0	0	0	0	0	0	0
IV	90	50	0	0	0	0	0	0	0
V	100	5	0	0	0	0	0	0	20
V	120	5	0	0	0	0	0	0	0
V	20	5	0	0	0	0	0	0	0
V	25	5	40	0	0	0	0	0	0
V	30	5	0	0	0	0	0	0	0
V	35	5	0	0	0	0	0	0	0
V	40	5	0	0	0	0	0	0	0
V	45	5	0	0	0	0	0	0	0
V	50	5	0	0	20	0	0	0	0
V	60	5	0	0	0	0	0	0	0
V	70	5	0	0	0	0	0	0	0
V	80	5	0	0	0	0	0	0	0
V	90	5	0	0	0	0	0	0	0

Cruzeiro	isóbata	Prof	AU GRN 7R	BA PAX 7T	BC SPP 7R	BD SPP 7U	CA LON 7U	CE PEL 7R	CH MES 7U
I	100	5	5080	0	0	20	0	320	0
I	100	50	180	0	0	0	0	0	20
I	130	5	1560	0	3739.9913	20	0	0	0
I	130	73	22.222222	0	0	0	0	0	0
I	20	5	12960	0	160	0	0	0	0
I	25	5	0	0	100	0	0	0	0
I	30	5	0	0	50	0	0	0	0
I	40	40	2080	0	40	100	0	0	0

I	40	5	0	0	160	0	0	140	0
I	50	40	0	0	50	50	0	700	0
I	50	5	0	0	200	0	0	0	66.666667
I	60	5	3100	0	0	0	0	0	0
I	60	50	0	0	0	0	0	0	0
I	70	5	600	0	0	0	0	0	0
I	70	50	750	0	0	0	0	50	0
I	80	50	8520	0	0	0	0	20	0
I	90	50	0	0	0	0	0	0	0
II	100	42	0	0	0	0	0	0	0
II	100	5	3794.8718	0	0	0	0	0	0
II	120	5	2580	0	0	0	0	0	0
II	120	60	0	0	0	0	0	0	0
II	140	5	1320	0	0	0	0	0	0
II	140	80	2340	0	0	20	0	80	0
II	20	18	0	0	0	0	0	0	0
II	20	5	0	0	0	0	0	0	0
II	25	20	0	0	0	0	0	0	0
II	30	20	4324.6753	0	0	0	0	0	0
II	30	5	0	0	0	0	0	0	0
II	35	30	857.14286	0	0	0	0	0	0
II	35	5	866.66667	0	133.33333	0	0	0	0
II	40	25	1540	0	0	60	0	260	0
II	40	5	0	0	0	0	0	0	0
II	45	40	13971.429	0	0	0	0	0	0
II	45	5	76135.536	0	0	0	0	0	0
II	50	35	2780.4878	0	0	0	0	0	0
II	50	5	3800	0	0	373.99913	0	0	0
II	60	5	6800	0	0	0	0	160	0
II	60	50	2840	0	880	0	0	240	880
II	70	42	0	0	3240	0	0	0	3760
II	70	5	5200	0	0	0	0	1040	0
II	80	50	800	0	0	0	0	0	0
II	90	35	4175.2489	0	0	0	0	0	0
II	90	5	0	0	0	0	0	0	0
III	100	5	0	0	0	0	0	0	0
III	100	65	0	0	0	1200	200	0	0
III	120	5	1220	0	0	0	0	0	0
III	120	72	640	0	0	0	0	0	0
III	140	5	700	0	0	0	0	0	0
III	140	80	0	0	0	0	0	0	0
III	20	5	1480	0	0	0	120	0	0
III	25	22	720	0	0	0	0	400	0
III	25	5	2600	0	0	0	0	0	0
III	30	25	3760	0	0	0	3819.9913	240	0
III	30	5	3955.5556	0	0	0	133.33333	3996.2882	0
III	35	26	7100	0	0	0	0	0	0
III	35	5	2020	0	0	120	0	0	0
III	40	15	0	0	0	0	0	0	0
III	45	5	2400	0	0	0	0	0	0
III	45	5	1580	0	0	20	20	0	0
III	50	40	1800	0	0	0	0	0	0
III	50	5	14400	0	0	0	0	0	0
III	60	40	2360	0	0	0	0	0	0
III	60	5	1040	0	0	0	0	0	0
III	70	37	340	0	0	0	0	0	0
III	70	5	1627.907	0	0	0	0	0	0
III	80	40	1880	0	0	0	0	0	0
III	80	5	0	0	0	0	0	0	0
III	90	49	8200	0	0	0	0	0	0
III	90	5	0	0	0	0	0	0	0
IV	100	5	0	0	0	0	0	0	0
IV	100	50	0	0	0	0	0	0	0

IV	120	5	0	0	0	0	0	0	0
IV	120	67	0	0	0	0	0	0	0
IV	140	5	0	0	0	0	0	0	0
IV	140	60	0	0	0	0	0	0	0
IV	20	5	0	1200	0	0	0	0	0
IV	25	5	0	0	0	0	0	0	0
IV	30	5	0	0	0	0	0	0	0
IV	35	5	80	0	0	0	0	0	0
IV	40	5	0	0	0	0	0	0	0
IV	45	5	0	0	0	0	0	0	0
IV	50	11	160	0	0	0	0	0	0
IV	50	5	0	0	0	0	0	0	0
IV	60	5	1000	0	0	0	0	0	0
IV	70	5	0	0	0	0	0	0	0
IV	80	5	0	0	0	0	0	0	0
IV	80	52	0	0	0	20	0	0	0
IV	90	5	0	0	0	0	0	0	0
IV	90	50	0	0	0	0	0	0	0
V	100	5	120	0	0	0	0	0	0
V	120	5	0	0	0	0	0	0	0
V	20	5	0	0	0	0	0	0	0
V	25	5	0	0	0	0	0	0	0
V	30	5	0	0	0	0	0	0	0
V	35	5	0	0	0	0	0	0	0
V	40	5	0	0	0	0	0	0	0
V	45	5	0	0	0	0	0	0	0
V	50	5	0	0	0	0	0	0	0
V	60	5	0	0	0	0	0	0	0
V	70	5	0	0	0	0	0	0	0
V	80	5	0	0	0	0	0	0	0
V	90	5	0	0	0	0	0	0	0

Cruzeiro	isóbata	Prof	CH SP1 7U	CH SPP 7U	CH COP 7U	CH DYD 7U	CH EIB 7U	CH LOR 7U	CH PER 7U
I	100	5	0	0	0	0	0	0	0
I	100	50	0	0	0	0	0	0	0
I	130	5	0	934.99781	0	0	0	0	0
I	130	73	44.444444	0	0	133.33333	0	0	0
I	20	5	120	0	0	0	0	0	0
I	25	5	600	0	0	0	0	0	300
I	30	5	50	0	849.99801	0	0	0	0
I	40	40	20	0	0	0	0	0	20
I	40	5	20	0	40	0	0	0	0
I	50	40	300	0	100	300	0	0	0
I	50	5	333.33333	0	0	0	0	0	100
I	60	5	0	0	0	0	0	0	0
I	60	50	0	0	0	0	0	0	0
I	70	5	0	0	0	0	0	0	0
I	70	50	0	0	0	0	0	0	0
I	80	50	0	0	0	0	0	0	0
I	90	50	0	0	0	0	0	0	0
II	100	42	0	0	0	0	0	0	0
II	100	5	0	0	0	7003.1897	0	0	102.5641
II	120	5	0	0	0	0	0	0	0
II	120	60	0	0	0	0	0	0	0
II	140	5	0	0	0	0	0	0	0
II	140	80	0	0	0	0	0	0	0
II	20	18	0	0	0	0	0	0	0
II	20	5	112.84456	0	0	0	0	0	0
II	25	20	169.26685	0	0	0	0	0	0
II	30	20	0	0	0	0	0	0	0
II	30	5	0	0	0	0	0	0	0
II	35	30	0	0	0	0	0	0	0

II	35	5	0	0	0	0	133.33333	0	0
II	40	25	0	0	0	467.49891	0	0	20
II	40	5	0	0	0	0	0	0	0
II	45	40	0	0	0	0	0	0	0
II	45	5	0	0	0	1335.7112	0	0	0
II	50	35	0	0	0	0	0	0	0
II	50	5	0	0	0	1121.9974	0	20	20
II	60	5	0	0	0	0	0	0	0
II	60	50	0	0	0	80	1520	0	0
II	70	42	0	0	80	25369.952	760	0	0
II	70	5	14959.965	0	0	0	0	0	0
II	80	50	0	0	0	240	0	0	0
II	90	35	0	0	0	0	0	0	0
II	90	5	0	0	0	0	0	0	40
III	100	5	0	0	0	0	0	0	0
III	100	65	0	0	0	0	0	0	0
III	120	5	0	0	0	0	0	0	0
III	120	72	0	0	0	0	0	0	0
III	140	5	0	0	0	0	0	0	0
III	140	80	0	0	0	0	0	0	0
III	20	5	0	0	11259.974	0	0	0	0
III	25	22	0	0	743.33188	0	0	0	40
III	25	5	0	0	4986.655	0	0	0	0
III	30	25	0	0	1869.9956	2804.9934	0	0	40
III	30	5	0	0	3462.9549	0	0	0	0
III	35	26	0	0	60	0	0	0	0
III	35	5	0	0	0	373.99913	0	0	0
III	40	15	0	0	0	0	0	0	0
III	45	5	0	0	0	0	0	0	60
III	45	5	0	0	0	0	0	0	0
III	50	40	0	0	0	0	0	0	40
III	50	5	0	0	0	0	0	0	0
III	60	40	0	0	0	0	0	0	0
III	60	5	0	0	0	0	0	0	0
III	70	37	0	0	0	0	0	0	0
III	70	5	0	0	0	0	0	0	0
III	80	40	0	0	0	0	0	0	0
III	80	5	0	0	0	0	0	0	0
III	90	49	0	0	0	0	0	0	0
III	90	5	0	0	0	0	0	0	0
IV	100	5	0	0	0	0	0	0	0
IV	100	50	0	0	0	0	0	0	0
IV	120	5	0	0	0	0	0	0	0
IV	120	67	0	0	0	0	0	0	0
IV	140	5	0	0	0	0	0	0	0
IV	140	60	0	0	0	0	0	0	0
IV	20	5	0	0	0	0	0	0	0
IV	25	5	0	0	0	0	0	0	0
IV	30	5	0	0	0	0	0	0	0
IV	35	5	0	0	0	0	0	0	0
IV	40	5	0	0	0	0	0	0	0
IV	45	5	0	0	0	267.14223	0	0	0
IV	50	11	0	0	0	0	0	0	0
IV	50	5	0	0	0	747.99825	0	0	0
IV	60	5	0	0	0	0	0	0	0
IV	70	5	0	0	0	0	0	0	0
IV	80	5	0	0	0	0	40	0	0
IV	80	52	0	0	0	0	0	0	0
IV	90	5	0	0	0	0	40	0	0
IV	90	50	0	0	0	0	0	0	0
V	100	5	0	0	0	0	0	0	0
V	120	5	0	0	0	0	0	0	0
V	20	5	0	0	0	0	0	0	0

V	25	5	0	0	0	0	0	0	0
V	30	5	0	0	0	0	0	0	0
V	35	5	0	0	0	0	0	0	0
V	40	5	0	0	0	0	0	0	0
V	45	5	0	0	0	0	0	0	0
V	50	5	0	0	0	0	0	0	0
V	60	5	0	0	0	0	0	0	0
V	70	5	0	0	0	0	0	0	0
V	80	5	0	0	0	0	0	0	0
V	90	5	0	0	0	0	0	0	0

Cruzeiro	isóbata	Prof	CH PER 7U	CH SP2 7U	CH SPP 7U	CL FRA 7U	CN SPP 7R	CN S10 7R	CN S12 7R
I	100	5	0	0	0	0	467.49891	0	0
I	100	50	0	0	0	0	934.99781	0	0
I	130	5	0	0	0	0	0	0	0
I	130	73	0	0	714.8132	0	0	0	0
I	20	5	40	0	0	0	0	0	0
I	25	5	0	0	100	0	130899.69	0	500
I	30	5	100	0	0	0	4674.9891	0	0
I	40	40	0	0	623.33188	0	743.33188	0	0
I	40	5	100	0	0	0	20	0	0
I	50	40	150	0	300	0	6833.3188	0	0
I	50	5	0	0	0	0	166.66667	0	0
I	60	5	0	0	0	0	0	0	0
I	60	50	0	0	0	0	0	0	0
I	70	5	0	0	0	0	0	0	0
I	70	50	0	0	0	0	0	0	0
I	80	50	0	0	0	0	180	0	0
I	90	50	0	0	0	0	1969.9956	0	0
II	100	42	0	0	160	0	467.49891	0	0
II	100	5	0	0	14349.327	0	0	0	0
II	120	5	0	0	327.14223	400	2137.1379	0	0
II	120	60	0	0	20	0	20	0	0
II	140	5	0	0	0	60	0	0	0
II	140	80	0	0	0	40	40	0	0
II	20	18	0	0	0	0	1128.4456	0	0
II	20	5	0	0	0	0	0	0	0
II	25	20	0	0	0	0	2208.5293	0	0
II	30	20	0	0	0	0	454.54545	0	0
II	30	5	0	0	200	120	0	0	0
II	35	30	0	0	0	0	648.57018	0	0
II	35	5	0	0	0	333.33333	0	0	0
II	40	25	0	0	467.49891	120	233.74945	180	0
II	40	5	0	0	0	240	507.49891	0	0
II	45	40	0	0	285.71429	0	0	0	0
II	45	5	0	0	0	0	0	0	0
II	50	35	0	0	0	195.12195	24.390244	0	0
II	50	5	0	0	373.99913	120	0	0	0
II	60	5	40	80	0	0	0	0	0
II	60	50	40	0	0	0	0	0	0
II	70	42	0	2040	7449.9869	0	0	0	0
II	70	5	0	440	0	120	400	0	0
II	80	50	0	600	6856.6506	0	2973.3275	0	0
II	90	35	0	0	0	0	0	0	0
II	90	5	0	0	553.99913	0	393.99913	0	0
III	100	5	0	0	0	0	0	0	0
III	100	65	0	0	0	0	3800	0	0
III	120	5	0	0	0	0	0	0	0
III	120	72	0	0	0	0	20	0	0
III	140	5	0	0	0	0	20	0	0
III	140	80	0	0	0	0	60	0	0
III	20	5	0	0	2804.9934	120	1054.9978	0	0

III	25	22	0	0	8103.3144	0	1246.6638	0	0
III	25	5	0	0	0	0	1869.9956	0	0
III	30	25	0	0	14959.965	120	40	0	0
III	30	5	0	0	692.59097	0	44.444444	0	0
III	35	26	0	0	0	0	0	0	0
III	35	5	0	0	533.99913	0	1495.9965	0	0
III	40	15	0	0	3739.9913	0	1266.6638	0	0
III	45	5	0	0	0	0	1909.9956	0	0
III	45	5	0	0	0	20	2493.3275	0	0
III	50	40	0	0	0	0	2533.3275	0	0
III	50	5	0	0	0	0	623.33188	0	0
III	60	40	0	0	0	0	1989.9956	0	0
III	60	5	0	0	40	0	0	0	0
III	70	37	0	0	0	0	20	0	0
III	70	5	0	0	0	69.767442	558.13953	0	0
III	80	40	0	0	0	0	0	0	0
III	80	5	0	0	0	0	0	0	0
III	90	49	0	0	0	0	240	0	0
III	90	5	0	0	0	0	0	0	0
IV	100	5	0	0	0	0	0	0	0
IV	100	50	0	0	0	0	0	0	0
IV	120	5	0	0	0	0	120	0	0
IV	120	67	0	0	0	0	0	0	0
IV	140	5	0	0	0	0	0	0	0
IV	140	60	0	0	0	0	40	0	0
IV	20	5	0	0	41139.904	0	160	0	0
IV	25	5	0	0	0	0	80	0	0
IV	30	5	0	0	13089.969	0	1989.9956	0	0
IV	35	5	0	0	0	0	1869.9956	0	0
IV	40	5	0	0	0	0	0	0	0
IV	45	5	0	0	0	0	821.4267	0	0
IV	50	11	0	0	0	0	140	0	0
IV	50	5	0	0	20	0	767.99825	0	0
IV	60	5	0	0	0	80	1869.9956	0	0
IV	70	5	0	0	0	80	0	0	0
IV	80	5	0	0	0	0	0	0	0
IV	80	52	0	0	0	0	140	0	0
IV	90	5	0	0	0	40	0	0	0
IV	90	50	0	0	0	0	20	0	0
V	100	5	0	0	0	0	373.99913	0	0
V	120	5	0	0	0	0	0	0	0
V	20	5	0	0	0	0	3819.9913	0	0
V	25	5	0	0	120	0	40	0	0
V	30	5	0	0	280	0	40	0	0
V	35	5	0	0	0	160	200	0	0
V	40	5	0	0	0	0	120	0	0
V	45	5	0	0	0	0	120	0	0
V	50	5	0	0	0	0	40	0	0
V	60	5	0	0	0	0	0	0	0
V	70	5	0	0	0	0	40	0	0
V	80	5	0	0	0	0	40	0	0
V	90	5	0	0	0	0	0	0	0

Cruzeiro	isóbata	Prof	CN S13 7R	CN S14 7R	CN S16 7R	CN SP1 7R	CN SP3 7R	CN sp8 7R	CN SP9 7R
I	100	5	0	0	0	4674.9891	0	0	0
I	100	50	0	0	0	0	0	0	0
I	130	5	0	0	0	0	0	0	0
I	130	73	0	0	0	0	0	0	0
I	20	5	0	0	0	0	0	20569.952	0
I	25	5	0	0	0	0	0	0	0
I	30	5	0	0	0	0	424.99901	0	0
I	40	40	0	0	0	540	0	0	0

I	40	5	0	0	0	0	40	0	0
I	50	40	0	0	0	0	0	0	0
I	50	5	0	0	0	0	466.66667	0	0
I	60	5	0	0	0	340	0	0	0
I	60	50	0	0	0	0	0	0	0
I	70	5	0	0	0	0	0	0	0
I	70	50	0	0	0	225	0	0	0
I	80	50	0	0	0	280	0	0	0
I	90	50	0	0	0	0	0	0	0
II	100	42	0	0	0	0	0	0	0
II	100	5	0	0	0	282.05128	0	0	0
II	120	5	0	0	0	120	0	0	0
II	120	60	0	0	0	0	0	0	0
II	140	5	0	0	0	40	0	0	0
II	140	80	0	0	0	300	0	0	0
II	20	18	0	0	0	0	0	0	0
II	20	5	0	0	0	0	0	0	0
II	25	20	0	0	0	0	0	0	0
II	30	20	0	0	0	0	0	0	0
II	30	5	0	0	0	0	0	0	0
II	35	30	0	0	0	0	0	0	0
II	35	5	0	0	0	0	0	0	0
II	40	25	0	0	0	520	0	0	60
II	40	5	0	0	0	0	0	0	0
II	45	40	0	0	0	742.85714	0	0	0
II	45	5	0	0	0	0	0	0	0
II	50	35	0	0	0	73.170732	0	0	0
II	50	5	0	0	0	860	0	0	0
II	60	5	0	0	0	0	0	0	0
II	60	50	0	0	0	0	0	0	0
II	70	42	0	0	0	0	0	0	0
II	70	5	0	0	0	0	0	0	0
II	80	50	0	0	0	0	0	0	0
II	90	35	0	0	0	1579.8239	0	0	0
II	90	5	0	0	0	60	0	0	0
III	100	5	0	0	0	0	0	0	0
III	100	65	0	0	0	0	0	0	0
III	120	5	0	0	0	60	0	0	0
III	120	72	0	0	0	0	0	0	0
III	140	5	0	0	0	100	0	0	0
III	140	80	0	0	0	0	0	0	0
III	20	5	9349.9781	0	0	520	0	0	0
III	25	22	1869.9956	0	0	0	1000	0	0
III	25	5	3116.6594	0	0	160	1869.9956	0	0
III	30	25	934.99781	0	0	440	360	0	0
III	30	5	0	0	0	133.33333	0	0	0
III	35	26	0	0	0	220	200	0	0
III	35	5	0	0	0	140	0	0	0
III	40	15	0	0	0	0	100	0	0
III	45	5	0	0	0	440	360	0	0
III	45	5	0	1440	0	300	0	0	0
III	50	40	0	0	0	0	160	0	0
III	50	5	0	0	0	640	40	0	0
III	60	40	0	0	0	0	0	0	0
III	60	5	0	0	0	160	0	0	0
III	70	37	0	0	0	60	0	0	0
III	70	5	0	0	0	0	0	0	0
III	80	40	0	0	0	0	0	0	0
III	80	5	0	0	0	0	0	0	0
III	90	49	0	0	0	680	0	0	0
III	90	5	0	0	0	0	0	0	0
IV	100	5	0	0	0	0	0	0	0
IV	100	50	0	0	0	0	20	0	0

IV	120	5	0	0	0	0	0	0	0
IV	120	67	0	0	0	0	0	0	0
IV	140	5	0	0	0	0	0	0	0
IV	140	60	0	0	0	0	0	0	0
IV	20	5	0	0	0	0	320	0	0
IV	25	5	0	0	0	0	0	0	0
IV	30	5	0	0	0	0	440	0	0
IV	35	5	120	0	0	0	40	0	0
IV	40	5	0	0	0	0	0	0	0
IV	45	5	0	0	0	0	40	0	0
IV	50	11	0	0	0	0	20	0	0
IV	50	5	0	0	0	0	0	0	0
IV	60	5	0	0	0	0	0	0	0
IV	70	5	0	0	0	0	0	0	0
IV	80	5	0	0	0	0	0	0	0
IV	80	52	0	0	0	0	0	0	0
IV	90	5	0	0	0	0	0	0	0
IV	90	50	0	0	0	0	0	0	0
V	100	5	0	0	0	0	0	0	0
V	120	5	0	0	0	0	0	0	0
V	20	5	0	0	0	0	0	0	0
V	25	5	0	0	0	0	0	0	0
V	30	5	0	0	3899.9913	40	0	0	0
V	35	5	0	0	0	0	40	0	0
V	40	5	0	0	400	0	40	0	0
V	45	5	0	0	400	0	40	0	0
V	50	5	0	0	0	0	0	0	0
V	60	5	0	0	0	0	0	0	0
V	70	5	0	0	0	0	0	0	0
V	80	5	0	0	0	0	0	0	0
V	90	5	0	0	0	0	0	0	0

Cruzeiro	isóbata	Prof	CC SPP 7U	CO GRA 7R	CO SP1 7R	CO SP2 7R	CO SP3 7R	CO SP4 7R	CO JON 7R
I	100	5	0	0	0	0	0	0	0
I	100	50	0	0	0	0	0	0	0
I	130	5	0	0	0	0	0	0	0
I	130	73	0	0	22.222222	0	0	0	0
I	20	5	0	0	0	0	0	0	0
I	25	5	0	0	0	0	0	0	0
I	30	5	0	50	0	0	0	0	50
I	40	40	0	0	100	0	0	0	0
I	40	5	0	0	0	0	0	0	0
I	50	40	0	0	0	0	0	0	0
I	50	5	0	0	0	33.333333	0	0	0
I	60	5	0	0	0	60	0	0	0
I	60	50	0	0	0	20	0	0	0
I	70	5	0	0	0	0	0	0	0
I	70	50	0	0	25	0	0	0	0
I	80	50	0	0	0	0	0	0	0
I	90	50	0	0	20	0	0	0	0
II	100	42	0	0	0	0	0	0	20
II	100	5	0	0	0	0	0	0	0
II	120	5	0	0	0	0	0	0	0
II	120	60	0	0	0	0	0	0	0
II	140	5	0	0	0	0	0	0	0
II	140	80	0	0	0	0	0	0	0
II	20	18	0	0	1579.8239	1128.4456	0	0	0
II	20	5	0	0	112.84456	0	0	0	0
II	25	20	0	0	169.26685	0	0	0	0
II	30	20	0	0	0	0	0	0	0
II	30	5	0	0	0	0	0	0	0
II	35	30	1602.8534	0	57.142857	0	0	0	0

II	35	5	0	0	200	0	0	0	0
II	40	25	0	0	0	120	0	0	0
II	40	5	0	0	0	1120	0	0	0
II	45	40	0	0	0	0	0	0	0
II	45	5	0	0	0	0	0	0	0
II	50	35	24.390244	0	219.5122	97.560976	0	0	0
II	50	5	0	0	0	60	0	0	0
II	60	5	0	0	0	0	0	0	0
II	60	50	0	0	100	80	0	0	0
II	70	42	0	0	20	0	0	0	0
II	70	5	0	0	0	80	0	0	240
II	80	50	0	0	0	0	80	40	0
II	90	35	0	0	1241.2902	0	0	0	0
II	90	5	0	0	0	0	0	0	0
III	100	5	0	0	0	0	0	0	0
III	100	65	0	0	0	200	0	0	0
III	120	5	0	0	0	0	0	0	0
III	120	72	0	0	80	60	0	0	0
III	140	5	0	0	0	20	0	0	0
III	140	80	0	0	0	0	0	0	0
III	20	5	0	0	640	0	0	0	0
III	25	22	0	0	0	120	0	0	0
III	25	5	0	0	0	40	0	0	0
III	30	25	0	0	960	120	0	0	0
III	30	5	0	0	355.55556	177.77778	0	0	0
III	35	26	0	0	40	80	0	0	0
III	35	5	0	0	0	0	0	0	0
III	40	15	0	0	20	0	0	0	0
III	45	5	0	0	20	0	0	0	0
III	45	5	0	0	0	0	0	0	0
III	50	40	0	0	0	0	0	0	0
III	50	5	0	0	120	0	0	0	0
III	60	40	0	0	0	40	0	0	0
III	60	5	0	0	0	0	0	0	0
III	70	37	0	0	0	0	0	0	0
III	70	5	0	0	0	162.7907	0	0	0
III	80	40	0	0	0	0	0	0	0
III	80	5	0	0	0	44.444444	0	0	0
III	90	49	0	0	0	0	0	0	0
III	90	5	0	0	0	0	0	0	0
IV	100	5	0	0	0	0	0	0	0
IV	100	50	0	0	0	20	0	0	0
IV	120	5	0	0	0	0	0	0	0
IV	120	67	0	0	0	0	0	0	0
IV	140	5	0	0	0	0	0	0	0
IV	140	60	0	0	0	0	0	0	0
IV	20	5	0	0	0	0	0	0	0
IV	25	5	0	0	40	0	0	0	0
IV	30	5	0	0	0	0	0	0	0
IV	35	5	0	0	0	0	0	0	0
IV	40	5	0	0	0	0	0	0	0
IV	45	5	0	0	20	0	0	0	0
IV	50	11	0	0	0	0	0	0	0
IV	50	5	0	0	40	0	0	0	0
IV	60	5	0	0	0	40	0	0	0
IV	70	5	0	0	0	0	0	0	0
IV	80	5	0	0	0	0	0	0	0
IV	80	52	0	0	20	20	0	0	0
IV	90	5	0	0	0	0	0	0	0
IV	90	50	0	0	0	0	0	0	0
V	100	5	0	0	0	0	0	0	0
V	120	5	0	0	0	0	0	0	0
V	20	5	0	0	0	0	0	0	0

V	25	5	0	0	0	0	0	0	0
V	30	5	0	0	0	0	0	0	0
V	35	5	0	0	0	0	0	0	0
V	40	5	0	0	0	0	0	0	0
V	45	5	0	0	0	0	0	0	0
V	50	5	0	0	0	0	0	0	0
V	60	5	0	0	0	0	0	0	0
V	70	5	0	0	0	0	0	0	0
V	80	5	0	0	0	20	0	0	0
V	90	5	0	0	0	0	0	0	0

Cruzeiro	isóbata	Prof	CO SP7 7R	CO SP8 7R	CO SP9 7R	CO SPP 7R	CO WAI 7R	CY SPP 7R	CY CLO 7E
I	100	5	0	0	0	0	0	0	0
I	100	50	0	0	0	0	40	0	934.99781
I	130	5	0	0	0	0	0	80	934.99781
I	130	73	22.222222	0	0	0	0	22.222222	1385.1819
I	20	5	0	0	0	0	0	0	0
I	25	5	0	0	0	100	0	0	0
I	30	5	0	0	0	0	0	50	14874.965
I	40	40	0	0	0	340	0	4986.655	3739.9913
I	40	5	0	0	0	0	0	0	0
I	50	40	0	0	0	50	0	0	6233.3188
I	50	5	0	0	0	100	0	33.333333	3428.3253
I	60	5	0	0	0	0	0	40	623.33188
I	60	50	0	0	0	0	0	0	0
I	70	5	0	0	0	0	0	0	0
I	70	50	0	0	0	0	0	50	4674.9891
I	80	50	0	0	0	0	0	0	0
I	90	50	0	0	0	0	0	0	0
II	100	42	0	0	0	0	0	0	0
II	100	5	0	0	0	0	0	0	3596.1454
II	120	5	0	0	0	0	0	80	3739.9913
II	120	60	0	0	0	0	0	0	3739.9913
II	140	5	0	0	0	0	0	40	934.99781
II	140	80	0	0	0	40	0	20	467.49891
II	20	18	0	0	0	0	0	0	0
II	20	5	0	0	0	0	0	338.53369	6319.2956
II	25	20	0	0	0	0	169.26685	0	29919.93
II	30	20	0	0	0	0	0	0	9714.263
II	30	5	0	0	0	0	0	373.99913	373.99913
II	35	30	0	0	0	0	0	400	1602.8534
II	35	5	0	0	0	0	0	0	13505.524
II	40	25	0	0	0	0	40	40	4441.2396
II	40	5	0	0	0	0	20	0	467.49891
II	45	40	0	0	0	0	2057.1429	171.42857	0
II	45	5	0	0	0	0	0	37399.913	2671.4223
II	50	35	0	0	0	97.560976	0	24.390244	1824.386
II	50	5	0	0	0	0	0	20	1495.9965
II	60	5	0	0	0	311.66594	360	280	3116.6594
II	60	50	0	0	0	0	20	40	9349.9781
II	70	42	0	0	0	20	0	0	0
II	70	5	0	0	0	0	0	360	14336.633
II	80	50	0	0	0	0	0	160	0
II	90	35	0	0	0	0	0	0	0
II	90	5	0	0	0	0	0	0	747.99825
III	100	5	0	0	0	0	0	0	0
III	100	65	0	0	200	0	0	5200	0
III	120	5	0	0	0	0	0	0	0
III	120	72	0	0	0	0	0	0	0
III	140	5	0	0	0	0	0	20	0
III	140	80	0	0	0	0	0	20	1869.9956
III	20	5	0	0	0	0	0	2029.9956	31789.926

III	25	22	0	0	0	0	120	623.33188	5609.9869
III	25	5	0	0	0	0	0	5769.9869	4363.3231
III	30	25	0	0	0	0	40	0	12354.972
III	30	5	0	0	0	0	0	44.444444	6925.9097
III	35	26	0	20	0	0	0	40	0
III	35	5	0	0	0	0	0	0	1495.9965
III	40	15	0	0	0	0	0	20	1869.9956
III	45	5	0	0	0	0	20	0	6544.9847
III	45	5	0	0	0	0	40	0	1246.6638
III	50	40	0	0	0	0	120	2733.3275	4059.9913
III	50	5	0	0	0	0	0	623.33188	1246.6638
III	60	40	0	0	0	0	40	934.99781	0
III	60	5	0	0	0	0	40	0	9349.9781
III	70	37	0	0	0	0	0	0	0
III	70	5	0	0	0	0	69.767442	69.767442	0
III	80	40	0	0	0	0	60	0	0
III	80	5	0	0	0	0	0	0	6233.3188
III	90	49	0	0	0	0	0	0	0
III	90	5	0	0	0	0	0	0	1869.9956
IV	100	5	0	0	0	20	0	0	0
IV	100	50	0	0	0	20	0	0	0
IV	120	5	0	0	0	0	0	0	0
IV	120	67	0	0	0	20	0	0	0
IV	140	5	0	0	0	0	0	0	0
IV	140	60	0	0	0	0	0	0	0
IV	20	5	0	0	0	0	0	160	7479.9825
IV	25	5	0	0	0	0	0	0	1869.9956
IV	30	5	0	0	0	0	0	1949.9956	18699.956
IV	35	5	0	0	0	0	0	120	1869.9956
IV	40	5	0	0	0	0	0	40	3739.9913
IV	45	5	0	0	0	0	20	0	534.28446
IV	50	11	0	0	0	60	20	60	5609.9869
IV	50	5	0	0	0	0	100	20	373.99913
IV	60	5	0	0	0	0	80	80	0
IV	70	5	0	0	0	0	0	0	1869.9956
IV	80	5	0	0	0	0	40	0	0
IV	80	52	0	0	0	0	40	0	3739.9913
IV	90	5	0	0	0	0	0	0	0
IV	90	50	0	0	0	0	0	40	0
V	100	5	0	0	0	0	0	0	373.99913
V	120	5	0	0	0	0	0	20	373.99913
V	20	5	0	0	0	0	0	0	0
V	25	5	0	0	0	0	0	80	0
V	30	5	0	0	0	0	0	80	40
V	35	5	0	0	0	0	0	0	3739.9913
V	40	5	0	0	0	0	0	0	0
V	45	5	0	0	0	0	0	100	3739.9913
V	50	5	0	0	0	0	0	100	1869.9956
V	60	5	0	0	0	0	0	0	0
V	70	5	0	0	0	0	0	0	0
V	80	5	0	0	0	0	0	0	0
V	90	5	0	0	0	0	0	20	0

Cruzeiro	isóbata	Prof	CY MAT 7K	DC FRA 7R	DL SPP 7U	DT SPP 7R	DP SP1 7V	DP spp 7V	DI BRI 7O
I	100	5	0	0	0	0	0	0	0
I	100	50	0	0	0	0	40	0	0
I	130	5	120	0	0	0	0	20	0
I	130	73	0	0	0	0	0	0	0
I	20	5	0	0	0	0	3739.9913	0	40
I	25	5	0	0	0	0	0	0	0

I	30	5	0	0	0	0	0	0	0
I	40	40	623.33188	0	0	0	680	0	0
I	40	5	0	0	0	0	20	0	80
I	50	40	150	0	0	0	850	0	0
I	50	5	1033.3333	0	0	0	33.333333	0	0
I	60	5	0	0	0	0	0	0	0
I	60	50	80	0	0	0	934.99781	20	0
I	70	5	25	0	0	0	0	0	0
I	70	50	25	0	0	0	0	0	0
I	80	50	0	0	0	0	0	0	0
I	90	50	0	0	0	0	0	0	0
II	100	42	0	0	0	0	0	0	0
II	100	5	0	487.17949	0	0	25.641026	0	0
II	120	5	0	920	0	0	0	0	0
II	120	60	0	0	0	0	0	0	0
II	140	5	0	0	0	0	0	0	0
II	140	80	0	0	0	0	0	0	0
II	20	18	902.75651	0	0	0	5642.2282	0	0
II	20	5	2933.9587	0	0	0	0	0	0
II	25	20	0	677.06738	0	0	2369.7358	0	0
II	30	20	0	90.909091	0	0	1214.2829	0	0
II	30	5	80	0	0	0	0	0	0
II	35	30	0	0	0	0	628.57143	0	0
II	35	5	66.666667	0	0	0	0	0	0
II	40	25	300	0	0	0	0	0	0
II	40	5	40	0	0	0	360	2337.4945	0
II	45	40	0	0	0	0	57.142857	0	0
II	45	5	6678.5558	0	0	0	1335.7112	0	0
II	50	35	121.95122	0	0	0	24.390244	0	0
II	50	5	120	186.99956	186.99956	0	0	0	0
II	60	5	0	0	0	0	311.66594	0	0
II	60	50	0	0	0	0	240	0	0
II	70	42	80	5240	0	0	40	0	0
II	70	5	200	240	0	40	623.33188	0	0
II	80	50	0	0	0	0	623.33188	0	0
II	90	35	0	0	0	0	0	0	0
II	90	5	200	160	0	0	0	0	0
III	100	5	0	0	0	0	0	0	0
III	100	65	0	0	0	0	0	200	0
III	120	5	0	0	0	0	0	0	0
III	120	72	0	0	0	0	20	40	0
III	140	5	0	0	0	0	0	0	0
III	140	80	0	0	0	0	0	0	0
III	20	5	0	0	0	0	160	0	0
III	25	22	800	0	0	0	40	1063.3319	0
III	25	5	0	0	0	0	0	0	0
III	30	25	280	0	0	0	160	2804.9934	0
III	30	5	44.444444	0	0	0	0	0	0
III	35	26	20	0	0	0	180	0	0
III	35	5	0	0	0	0	0	0	0
III	40	15	0	0	0	0	100	0	0
III	45	5	0	0	0	0	280	0	0
III	45	5	623.33188	0	0	0	0	0	0
III	50	40	0	0	0	0	1920	0	0
III	50	5	0	0	0	0	0	0	0
III	60	40	0	0	0	0	0	0	0
III	60	5	0	0	0	0	0	0	0
III	70	37	0	0	0	0	0	0	0
III	70	5	0	0	0	0	0	0	0
III	80	40	0	0	0	0	0	0	0
III	80	5	0	0	0	0	0	0	0
III	90	49	0	0	0	0	0	0	0
III	90	5	934.99781	0	0	0	0	0	0

IV	100	5	0	0	0	0	0	0	0
IV	100	50	0	0	0	0	20	0	0
IV	120	5	0	0	0	0	0	0	0
IV	120	67	0	0	0	0	0	0	0
IV	140	5	0	0	0	0	0	0	0
IV	140	60	0	0	0	0	0	0	0
IV	20	5	0	0	0	0	0	240	0
IV	25	5	200	1680	0	0	80	0	0
IV	30	5	0	0	0	0	120	0	0
IV	35	5	0	120	0	0	360	0	0
IV	40	5	0	0	0	0	480	0	0
IV	45	5	0	0	0	0	0	1088.5689	0
IV	50	11	0	0	0	0	560	0	0
IV	50	5	20	0	0	0	0	433.99913	0
IV	60	5	0	0	0	0	0	0	0
IV	70	5	0	0	0	0	0	0	0
IV	80	5	0	0	0	0	0	0	0
IV	80	52	0	0	0	0	320	0	0
IV	90	5	20	0	0	0	0	0	0
IV	90	50	0	0	0	0	0	0	0
V	100	5	0	0	0	0	0	0	0
V	120	5	0	0	0	0	0	0	0
V	20	5	0	0	0	0	0	320	0
V	25	5	40	0	0	0	80	0	0
V	30	5	0	0	0	0	40	0	0
V	35	5	0	0	0	0	0	0	0
V	40	5	40	0	0	0	40	0	0
V	45	5	40	0	0	0	0	0	0
V	50	5	0	0	0	0	0	0	0
V	60	5	0	0	0	0	0	0	0
V	70	5	0	0	0	0	0	0	0
V	80	5	0	0	0	0	0	0	0
V	90	5	0	0	0	0	0	0	0

Cruzeiro	isóbata	Prof	EU SPP 7U	EU TIN 9	FA SPP 7U	FR DIO 7U	GU STR 7R	HS SPP 7U	HE HAU 7U
I	100	5	0	0	2337.4945	60	0	0	0
I	100	50	0	0	0	0	140	0	0
I	130	5	0	0	0	0	0	0	0
I	130	73	44.444444	0	0	155.55556	0	0	0
I	20	5	1869.9956	0	0	0	120	0	440
I	25	5	0	0	0	0	900	0	2100
I	30	5	0	0	849.99801	0	50	0	50
I	40	40	0	0	5609.9869	623.33188	0	0	0
I	40	5	0	0	186.99956	0	40	0	420
I	50	40	0	0	1250	0	700	0	0
I	50	5	0	0	623.33188	0	200	0	266.66667
I	60	5	0	0	0	0	0	0	0
I	60	50	0	0	20	0	40	0	0
I	70	5	0	0	0	0	0	0	0
I	70	50	0	0	0	0	0	0	0
I	80	50	0	0	0	80	660	0	0
I	90	50	0	0	0	80	0	0	0
II	100	42	0	0	0	0	0	0	80
II	100	5	0	0	0	0	0	25.641026	256.41026
II	120	5	0	0	0	2137.1379	0	40	560
II	120	60	0	0	0	0	180	0	0
II	140	5	0	0	0	0	0	0	0
II	140	80	0	0	0	0	0	0	0
II	20	18	0	0	0	0	0	0	0
II	20	5	0	0	0	0	16362.462	0	0
II	25	20	0	0	0	0	0	0	0
II	30	20	0	0	2428.5657	1214.2829	0	0	0

II	30	5	0	0	0	0	120	0	120
II	35	30	0	0	0	27248.508	1068.5689	0	0
II	35	5	0	0	0	0	66.666667	0	0
II	40	25	0	0	0	467.49891	380	0	0
II	40	5	0	0	0	0	467.49891	0	0
II	45	40	0	0	0	0	0	0	0
II	45	5	0	0	0	4007.1335	0	0	0
II	50	35	0	0	0	0	243.90244	73.170732	0
II	50	5	0	0	0	373.99913	20	20	80
II	60	5	280	0	0	3276.6594	200	0	0
II	60	50	360	0	623.33188	440	10119.983	0	0
II	70	42	1440	0	0	0	25799.965	0	0
II	70	5	0	0	0	80	0	0	0
II	80	50	0	0	0	240	160	0	0
II	90	35	0	0	0	0	0	0	0
II	90	5	0	0	0	0	360	100	0
III	100	5	0	0	0	0	0	23.255814	0
III	100	65	0	0	0	0	0	0	0
III	120	5	0	0	0	0	0	40	0
III	120	72	0	0	0	0	0	0	0
III	140	5	0	0	0	0	0	0	0
III	140	80	0	0	0	0	0	40	0
III	20	5	0	0	0	0	11764.976	40	640
III	25	22	0	0	18699.956	0	623.33188	0	1246.6638
III	25	5	0	0	0	0	3116.6594	0	0
III	30	25	0	0	2149.9956	0	0	0	0
III	30	5	0	0	692.59097	3462.9549	0	0	2077.7729
III	35	26	0	0	200	0	0	0	0
III	35	5	0	0	747.99825	0	0	0	0
III	40	15	0	0	1246.6638	0	4443.3231	60	623.33188
III	45	5	0	0	180	0	0	0	0
III	45	5	0	0	0	0	180	0	0
III	50	40	0	0	800	0	0	0	0
III	50	5	0	0	0	0	0	0	0
III	60	40	0	0	40	1080	160	160	0
III	60	5	0	0	0	0	0	120	0
III	70	37	0	0	0	780	0	20	0
III	70	5	0	0	0	23.255814	0	0	0
III	80	40	0	0	0	1560	0	0	0
III	80	5	0	0	0	0	0	0	0
III	90	49	0	0	0	680	0	0	0
III	90	5	0	0	0	0	0	40	0
IV	100	5	0	0	0	0	0	0	0
IV	100	50	0	0	0	100	0	0	0
IV	120	5	0	0	0	0	0	20	0
IV	120	67	0	0	0	0	0	0	0
IV	140	5	0	0	0	0	0	0	0
IV	140	60	0	0	0	20	0	0	0
IV	20	5	0	0	3819.9913	0	29139.939	0	80
IV	25	5	0	0	520	0	27619.956	0	0
IV	30	5	0	0	1869.9956	0	1600	0	5609.9869
IV	35	5	0	0	280	0	160	0	0
IV	40	5	0	0	440	0	0	0	0
IV	45	5	0	0	2404.2801	0	0	0	0
IV	50	11	0	0	440	0	0	0	0
IV	50	5	0	0	3739.9913	0	0	0	0
IV	60	5	0	0	160	0	0	80	0
IV	70	5	0	0	0	0	0	40	0
IV	80	5	0	0	0	0	0	40	0
IV	80	52	0	0	60	0	0	60	0
IV	90	5	0	0	0	0	0	0	0
IV	90	50	0	0	60	0	0	0	0
V	100	5	0	0	0	0	0	0	0

V	120	5	0	0	0	0	0	0	0
V	20	5	0	0	80	0	80	0	0
V	25	5	0	0	40	0	0	0	0
V	30	5	0	0	120	0	0	0	0
V	35	5	0	0	40	0	0	0	0
V	40	5	0	0	0	0	0	0	0
V	45	5	0	0	0	0	0	0	0
V	50	5	0	0	0	0	0	0	0
V	60	5	0	0	0	0	0	0	0
V	70	5	0	0	0	0	0	0	0
V	80	5	0	0	0	0	0	0	0
V	90	5	0	0	0	0	0	0	0

Cruzeiro	isóbata	Prof	HE IND 7U	HE MEM 7U	HM CUN 7I	PD STE 7R	LE DAN 7R	LI PAC 7T	MA SPP 7U
I	100	5	0	0	0	40	0	0	0
I	100	50	0	0	20	0	0	0	0
I	130	5	0	20	0	0	0	60	0
I	130	73	0	0	22.222222	0	0	0	0
I	20	5	0	0	0	0	0	200	0
I	25	5	500	0	0	0	0	300	0
I	30	5	0	250	0	0	0	0	0
I	40	40	0	0	0	60	0	20	0
I	40	5	0	0	0	0	0	0	0
I	50	40	0	0	0	50	0	0	0
I	50	5	0	600	0	33.333333	0	0	0
I	60	5	0	0	0	40	0	0	0
I	60	50	0	0	0	0	0	0	0
I	70	5	0	0	0	0	0	0	0
I	70	50	0	0	0	0	0	0	0
I	80	50	0	0	0	20	0	0	0
I	90	50	0	0	0	0	0	0	0
II	100	42	120	0	0	0	0	60	0
II	100	5	1384.6154	0	0	0	3846.1538	0	0
II	120	5	0	0	0	0	267.14223	200	0
II	120	60	0	0	0	0	0	0	0
II	140	5	0	0	0	0	0	0	0
II	140	80	0	0	20	0	0	60	0
II	20	18	9930.3216	0	0	0	0	0	0
II	20	5	116004.21	4626.6271	0	0	2821.1141	0	0
II	25	20	14726.216	0	0	0	1015.6011	0	0
II	30	20	18220.779	0	0	0	14571.394	0	0
II	30	5	146920	0	0	0	747.99825	0	0
II	35	30	24400	0	0	0	0	57.142857	534.28446
II	35	5	83066.667	0	0	0	133.33333	0	0
II	40	25	500	0	20	0	0	20	0
II	40	5	840	0	0	160	840	0	0
II	45	40	171.42857	0	0	0	0	0	0
II	45	5	114.28571	1335.7112	0	0	0	0	0
II	50	35	365.85366	0	0	0	0	24.390244	0
II	50	5	120	0	0	0	0	0	0
II	60	5	240	0	0	0	6544.9847	4051.6572	0
II	60	50	0	0	0	0	0	520	0
II	70	42	160	0	0	0	18699.956	40	0
II	70	5	240	0	0	0	80	40	0
II	80	50	0	0	0	0	0	0	40
II	90	35	0	0	0	0	0	0	0
II	90	5	920	740	0	0	0	180	0
III	100	5	0	0	0	0	0	0	0
III	100	65	0	0	0	0	0	0	0
III	120	5	20	0	0	0	0	0	0
III	120	72	0	0	0	0	0	0	0
III	140	5	0	0	0	0	0	0	0

III	140	80	0	0	0	0	0	0	0
III	20	5	0	0	0	0	7479.9825	0	0
III	25	22	320	0	40	0	0	0	0
III	25	5	200	0	160	0	0	0	0
III	30	25	0	0	0	0	0	0	0
III	30	5	0	0	44.444444	0	0	0	0
III	35	26	60	0	0	340	0	0	0
III	35	5	20	0	0	0	0	0	0
III	40	15	0	60	0	40	0	20	0
III	45	5	0	0	60	0	0	0	0
III	45	5	0	0	0	0	0	0	0
III	50	40	0	0	40	0	0	0	0
III	50	5	0	0	0	0	0	0	0
III	60	40	1600	40	40	0	0	40	0
III	60	5	3720	680	0	0	0	120	0
III	70	37	780	300	20	0	0	0	0
III	70	5	1558.1395	395.34884	23.255814	0	0	0	0
III	80	40	340	0	0	0	0	60	20
III	80	5	4488.8889	0	0	0	0	0	0
III	90	49	240	0	0	0	0	0	0
III	90	5	14000	760	0	0	0	0	0
IV	100	5	0	0	0	0	0	0	0
IV	100	50	0	0	0	0	0	0	0
IV	120	5	0	0	0	0	0	0	0
IV	120	67	0	0	0	0	0	0	0
IV	140	5	0	0	0	0	0	0	0
IV	140	60	0	0	0	0	0	0	0
IV	20	5	240	0	0	0	0	80	0
IV	25	5	520	0	0	0	0	280	0
IV	30	5	80	0	40	0	0	440	0
IV	35	5	0	0	0	0	0	0	0
IV	40	5	80	0	0	0	0	0	0
IV	45	5	0	0	0	0	0	0	0
IV	50	11	0	0	0	160	0	20	0
IV	50	5	0	240	0	0	0	0	0
IV	60	5	0	0	0	0	0	0	0
IV	70	5	0	0	0	0	0	0	80
IV	80	5	0	0	0	0	0	0	0
IV	80	52	0	0	0	0	0	0	0
IV	90	5	0	0	0	0	0	0	0
IV	90	50	0	0	0	0	0	0	0
V	100	5	0	0	0	0	0	0	0
V	120	5	0	0	0	0	0	0	0
V	20	5	0	0	0	0	0	0	0
V	25	5	0	0	0	0	0	0	0
V	30	5	0	0	0	0	0	0	0
V	35	5	0	0	0	0	0	0	0
V	40	5	0	0	0	0	0	0	0
V	45	5	0	0	0	0	0	0	0
V	50	5	0	0	0	0	0	0	0
V	60	5	0	0	0	0	0	0	0
V	70	5	0	0	0	0	0	0	0
V	80	5	0	0	0	0	0	0	0
V	90	5	0	40	0	0	0	0	0

Cruzeiro	isóbata	Prof	ME SPP 7R	ME MEM 7U	NA SP5 7U	NA SP1 7U	NA DIR 7U	NA SP2 7U	NA SP3 7U
I	100	5	0	0	0	0	0	0	0
I	100	50	0	0	0	0	0	0	0
I	130	5	0	0	0	0	0	0	0
I	130	73	0	0	0	0	0	0	0
I	20	5	0	80	0	0	0	0	0
I	25	5	0	800	0	0	0	0	0

I	30	5	0	100	150	0	0	849.99801	0
I	40	40	0	0	0	0	0	160	0
I	40	5	0	0	1495.9965	0	0	0	0
I	50	40	0	0	0	0	0	6233.3188	0
I	50	5	0	0	0	934.99781	0	923.33188	0
I	60	5	0	0	0	0	0	0	0
I	60	50	0	0	0	0	0	0	0
I	70	5	0	0	0	0	0	0	0
I	70	50	0	0	0	0	0	0	0
I	80	50	0	0	0	0	0	0	0
I	90	50	0	0	0	0	0	0	0
II	100	42	20	0	20	0	0	0	0
II	100	5	0	0	0	0	0	0	0
II	120	5	0	0	20	0	0	0	0
II	120	60	0	0	0	0	0	0	0
II	140	5	0	0	0	20	0	0	0
II	140	80	0	0	0	0	0	0	0
II	20	18	0	0	0	0	0	0	0
II	20	5	0	0	0	0	0	0	0
II	25	20	0	0	0	0	0	0	0
II	30	20	454.54545	0	0	0	0	0	0
II	30	5	0	0	0	1869.9956	0	0	0
II	35	30	0	0	0	1068.5689	0	0	0
II	35	5	0	400	0	0	0	0	0
II	40	25	0	0	0	467.49891	40	0	0
II	40	5	0	0	0	974.99781	0	0	0
II	45	40	0	0	0	0	0	0	211042.36
II	45	5	0	0	0	0	5342.8446	0	0
II	50	35	0	0	0	0	0	0	0
II	50	5	0	0	0	0	186.99956	0	0
II	60	5	0	0	1246.6638	2280	0	0	0
II	60	50	0	280	0	0	120	0	0
II	70	42	0	440	0	0	0	1869.9956	0
II	70	5	0	0	0	0	0	0	0.0422983
II	80	50	0	0	0	0	0	40	0
II	90	35	0	0	0	564.22282	0	0	0
II	90	5	0	0	0	0	0	0	0
III	100	5	0	0	0	0	0	0	0
III	100	65	0	0	0	0	0	0	0
III	120	5	0	0	0	0	0	20	0
III	120	72	0	0	0	0	0	0	0
III	140	5	0	0	0	0	0	0	0
III	140	80	0	0	0	0	0	0	0
III	20	5	0	360	0	0	934.99781	934.99781	0
III	25	22	0	0	0	0	0	623.33188	0
III	25	5	0	40	0	0	0	0	1869.9956
III	30	25	0	0	0	0	0	0	0
III	30	5	0	0	0	0	0	0	0
III	35	26	0	0	0	0	0	0	0
III	35	5	0	0	0	0	0	5161.9886	0
III	40	15	0	0	0	0	0	0	0
III	45	5	0	0	0	0	0	0	0
III	45	5	0	0	0	0	0	20	0
III	50	40	0	0	0	0	0	623.33188	0
III	50	5	0	0	0	0	0	0	0
III	60	40	0	0	0	0	0	0	0
III	60	5	0	0	0	0	0	0	0
III	70	37	0	0	0	0	0	0	0
III	70	5	0	0	0	0	0	0	0
III	80	40	0	0	0	0	0	0	0
III	80	5	0	0	0	0	0	0	0
III	90	49	120	0	0	0	0	0	0
III	90	5	0	0	0	0	0	0	0

IV	100	5	0	0	0	0	0	0	0
IV	100	50	60	0	0	0	0	0	0
IV	120	5	0	0	0	0	0	0	0
IV	120	67	0	0	0	0	0	0	0
IV	140	5	0	0	0	0	0	0	0
IV	140	60	0	0	0	0	0	0	0
IV	20	5	0	0	0	0	0	0	0
IV	25	5	0	0	0	0	0	0	0
IV	30	5	0	0	0	0	0	0	0
IV	35	5	0	0	0	0	0	0	0
IV	40	5	0	0	0	0	0	0	0
IV	45	5	0	0	0	0	0	1869.9956	0
IV	50	11	40	380	0	0	0	0	0
IV	50	5	0	0	0	0	0	0	2243.9948
IV	60	5	0	0	0	0	0	0	0
IV	70	5	0	0	0	0	0	0	0
IV	80	5	0	0	0	0	0	0	0
IV	80	52	0	0	0	0	0	0	0
IV	90	5	0	0	0	0	0	0	0
IV	90	50	0	0	0	0	0	0	0
V	100	5	0	0	0	0	0	0	0
V	120	5	0	0	0	0	0	0	0
V	20	5	0	0	0	0	0	0	0
V	25	5	0	0	0	0	0	0	0
V	30	5	0	0	0	0	0	0	0
V	35	5	0	0	0	0	0	0	0
V	40	5	0	0	0	0	0	0	0
V	45	5	40	0	0	0	0	0	0
V	50	5	40	0	0	0	0	0	0
V	60	5	0	0	0	0	0	0	0
V	70	5	0	0	0	0	0	0	0
V	80	5	0	0	0	0	0	0	0
V	90	5	0	0	0	0	0	0	0

Cruzeiro	isóbata	Prof	NA SP4 7U	NA SP5 7U	NA SPP 7U	NI SP1 7U	NI SP2 7U	PA SUL 7R	PL TEN 7U
I	100	5	40	0	0	0	467.49891	0	0
I	100	50	0	0	0	934.99781	0	0	0
I	130	5	0	0	0	4674.9891	20	0	0
I	130	73	0	0	0	0	0	0	0
I	20	5	0	0	80	0	0	0	0
I	25	5	0	0	100	0	0	0	0
I	30	5	0	0	450	0	0	0	0
I	40	40	300	0	0	0	0	340	3620
I	40	5	0	0	0	373.99913	0	0	0
I	50	40	250	0	0	0	0	0	0
I	50	5	200	0	0	0	0	0	0
I	60	5	0	0	0	3116.6594	0	0	0
I	60	50	20	0	0	954.99781	1869.9956	0	0
I	70	5	0	0	0	1168.7473	0	0	0
I	70	50	0	0	0	0	0	0	0
I	80	50	0	0	0	0	0	0	0
I	90	50	0	0	0	1869.9956	0	0	0
II	100	42	0	0	0	0	0	0	0
II	100	5	0	0	0	1198.7151	641.02564	0	0
II	120	5	0	0	0	1068.5689	0	80	0
II	120	60	0	0	40	623.33188	0	0	0
II	140	5	0	0	623.33188	0	0	0	0
II	140	80	60	0	0	0	0	0	40
II	20	18	0	0	6093.6064	0	0	0	0
II	20	5	0	0	0	0	0	0	0
II	25	20	846.33423	0	0	0	0	0	0
II	30	20	45.454545	0	0	0	0	0	0

II	30	5	40	0	1121.9974	0	0	0	0
II	35	30	0	0	2899.9938	285.71429	0	0	0
II	35	5	66.666667	0	1172.2198	2077.7729	0	0	0
II	40	25	0	0	0	40	233.74945	60	40
II	40	5	0	0	0	0	0	120	0
II	45	40	285.71429	0	1335.7112	1335.7112	0	0	0
II	45	5	0	0	1335.7112	0	0	4007.1335	0
II	50	35	0	0	1368.2895	4560.9649	13226.798	0	0
II	50	5	100	0	40	2056.9952	186.99956	40	0
II	60	5	0	0	0	120	3428.3253	760	0
II	60	50	0	0	120	0	160	0	0
II	70	42	0	0	0	0	0	0	0
II	70	5	0	0	680	40	160	760	0
II	80	50	0	0	1246.6638	0	0	0	0
II	90	35	0	0	0	112.84456	0	0	0
II	90	5	0	0	0	747.99825	0	0	0
III	100	5	0	0	0	0	0	0	0
III	100	65	200	0	0	0	0	21400	0
III	120	5	20	20	0	0	0	0	40
III	120	72	0	60	0	0	0	240	20
III	140	5	0	0	0	0	0	60	0
III	140	80	0	0	20	0	0	0	0
III	20	5	0	0	934.99781	0	0	0	40
III	25	22	0	0	200	1246.6638	623.33188	1566.6638	0
III	25	5	240	0	1246.6638	2493.3275	0	840	1246.6638
III	30	25	0	0	40	0	0	0	0
III	30	5	44.444444	0	0	1385.1819	533.33333	0	0
III	35	26	0	0	100	0	0	0	0
III	35	5	260	0	3759.9913	0	0	380	0
III	40	15	40	0	623.33188	8103.3144	0	0	0
III	45	5	140	0	20	1869.9956	0	0	20
III	45	5	80	0	40	6856.6506	0	0	0
III	50	40	320	80	0	200	0	0	4523.3231
III	50	5	0	0	623.33188	1246.6638	623.33188	1246.6638	120
III	60	40	0	0	0	0	0	480	0
III	60	5	0	0	40	0	0	0	0
III	70	37	0	0	0	0	0	0	20
III	70	5	0	0	0	0	0	0	1087.2068
III	80	40	100	0	0	0	0	60	40
III	80	5	0	0	2077.7729	0	0	0	0
III	90	49	0	0	0	1869.9956	0	0	0
III	90	5	0	0	0	934.99781	0	0	0
IV	100	5	0	0	0	0	0	0	0
IV	100	50	0	0	0	0	0	0	0
IV	120	5	0	0	0	1869.9956	0	0	0
IV	120	67	0	0	0	0	0	0	0
IV	140	5	0	0	0	11219.974	0	0	0
IV	140	60	0	0	0	1869.9956	0	0	0
IV	20	5	80	400	3979.9913	0	0	480	0
IV	25	5	280	160	0	40	0	240	0
IV	30	5	0	0	0	1869.9956	0	0	0
IV	35	5	80	0	0	0	0	0	0
IV	40	5	400	40	0	0	0	200	0
IV	45	5	140	140	801.4267	20	120	140	0
IV	50	11	140	0	0	0	0	160	0
IV	50	5	20	0	787.99825	0	0	40	0
IV	60	5	80	0	0	0	0	80	0
IV	70	5	0	0	0	0	0	0	0
IV	80	5	0	0	0	1869.9956	0	0	0
IV	80	52	40	0	0	0	0	0	20
IV	90	5	0	0	0	0	0	0	0
IV	90	50	0	0	0	0	0	0	0
V	100	5	0	60	0	373.99913	0	0	0

V	120	5	0	0	0	0	0	0	0
V	20	5	80	0	0	0	0	0	0
V	25	5	0	0	0	0	0	0	0
V	30	5	40	0	0	0	0	680	0
V	35	5	0	0	0	0	0	0	0
V	40	5	0	0	0	3739.9913	0	240	0
V	45	5	0	0	0	0	0	0	0
V	50	5	0	0	0	0	0	0	0
V	60	5	0	0	0	0	0	0	0
V	70	5	0	0	0	1869.9956	0	0	0
V	80	5	0	0	0	1869.9956	0	0	0
V	90	5	0	0	0	1869.9956	0	0	0

Cruzeiro	isóbata	Prof	PG SPP 7U	PL SPP 7U	PN S10 7U	PN SPP 7U	PN S11 7U	PN S12 7U	PN S14 7U
I	100	5	0	0	0	467.49891	0	0	0
I	100	50	0	0	934.99781	934.99781	0	0	0
I	130	5	60	0	2804.9934	0	0	0	0
I	130	73	0	0	0	0	0	0	0
I	20	5	0	80	0	0	0	0	0
I	25	5	0	200	0	700	0	0	0
I	30	5	50	350	3399.992	1749.996	0	0	0
I	40	40	34283.253	440	0	0	0	0	0
I	40	5	20	40	0	373.99913	0	0	0
I	50	40	200	0	300	0	0	0	0
I	50	5	0	100	0	66.666667	0	0	0
I	60	5	0	0	623.33188	0	0	0	0
I	60	50	0	20	142119.67	0	0	0	0
I	70	5	0	0	0	2337.4945	0	0	0
I	70	50	25	0	0	0	0	0	0
I	80	50	0	20	40	0	0	0	0
I	90	50	0	0	0	0	0	0	0
II	100	42	0	0	0	0	0	0	0
II	100	5	0	0	2397.4303	3596.1454	0	0	0
II	120	5	60	0	3458.5646	4087.1335	0	0	0
II	120	60	0	0	0	1246.6638	0	0	0
II	140	5	0	0	0	311.66594	0	0	0
II	140	80	0	0	1402.4967	20	0	0	0
II	20	18	4062.4043	1354.1348	0	0	0	0	0
II	20	5	0	225.68913	0	225.68913	0	0	0
II	25	20	169.26685	846.33423	0	4417.0586	0	0	0
II	30	20	142.85714	0	0	1214.2829	0	45.454545	0
II	30	5	0	0	0	1121.9974	0	0	0
II	35	30	0	228.57143	0	8662.8372	0	0	0
II	35	5	0	0	0	0	0	0	0
II	40	25	0	0	233.74945	1869.9956	40	0	0
II	40	5	0	120	0	974.99781	0	0	0
II	45	40	0	0	745326.83	685.71429	0	0	0
II	45	5	0	54764.158	2671.4223	0	0	0	0
II	50	35	0	0	456.09649	0	0	0	0
II	50	5	0	393.99913	20	747.99825	0	0	0
II	60	5	0	80	80	1054.9978	0	0	0
II	60	50	0	80	0	4986.655	0	0	0
II	70	42	0	0	0	0	0	0	0
II	70	5	0	0	40	520	0	0	80
II	80	50	0	0	0	40	0	0	80
II	90	35	0	0	0	0	0	0	0
II	90	5	0	0	373.99913	0	0	0	0
III	100	5	0	46.511628	23.255814	0	0	0	0
III	100	65	0	800	0	0	0	0	0
III	120	5	0	0	0	5609.9869	0	0	0
III	120	72	0	0	0	20	0	0	0
III	140	5	0	0	20	5789.9869	0	0	0

III	140	80	0	60	0	60	0	0	0
III	20	5	40	160	934.99781	7479.9825	0	0	0
III	25	22	1560	0	0	5769.9869	0	0	0
III	25	5	0	0	623.33188	5609.9869	0	0	0
III	30	25	0	760	0	40	0	0	0
III	30	5	0	692.59097	0	0	0	0	0
III	35	26	20	260	0	0	0	0	0
III	35	5	0	60	2243.9948	1121.9974	0	0	0
III	40	15	0	60	0	0	0	0	0
III	45	5	0	700	0	15894.963	0	0	0
III	45	5	0	20	80	1306.6638	0	0	0
III	50	40	200	1760	0	12466.638	0	0	0
III	50	5	160	0	0	8726.6463	0	0	0
III	60	40	0	0	400	4674.9891	0	0	0
III	60	5	0	0	18779.956	5609.9869	0	0	0
III	70	37	0	0	360	33659.921	0	0	0
III	70	5	0	0	2430.2275	0	0	0	0
III	80	40	0	20	0	7539.9825	0	0	0
III	80	5	0	0	10388.865	0	0	0	0
III	90	49	0	0	0	0	0	0	0
III	90	5	0	0	880	0	0	0	0
IV	100	5	0	0	0	1889.9956	0	0	0
IV	100	50	0	0	0	1869.9956	0	0	0
IV	120	5	0	0	0	20	0	0	0
IV	120	67	0	0	0	3739.9913	0	0	0
IV	140	5	0	0	40	1869.9956	0	0	0
IV	140	60	0	0	0	5609.9869	0	0	0
IV	20	5	0	560	0	15279.965	0	0	0
IV	25	5	0	560	0	1869.9956	0	0	0
IV	30	5	0	400	0	0	0	0	0
IV	35	5	0	160	0	3739.9913	0	0	0
IV	40	5	0	960	0	24309.943	0	0	0
IV	45	5	0	1440	0	4107.1335	0	0	0
IV	50	11	0	0	0	1869.9956	0	0	0
IV	50	5	0	400	0	5609.9869	0	0	0
IV	60	5	0	400	0	1869.9956	0	0	0
IV	70	5	0	0	0	0	0	0	0
IV	80	5	0	0	40	0	0	0	0
IV	80	52	0	320	0	1889.9956	0	0	0
IV	90	5	0	0	0	0	0	0	0
IV	90	50	0	0	0	0	0	0	0
V	100	5	0	0	0	747.99825	0	0	0
V	120	5	0	0	0	0	0	0	0
V	20	5	0	0	0	0	0	0	0
V	25	5	0	0	0	120	0	0	0
V	30	5	0	40	0	0	0	0	0
V	35	5	0	80	0	0	0	0	0
V	40	5	0	0	0	40	0	0	0
V	45	5	0	0	0	0	0	0	0
V	50	5	0	0	0	PN SPP 7U	0	0	0
V	60	5	0	0	0	0	0	0	0
V	70	5	0	0	0	0	0	0	0
V	80	5	0	0	0	0	0	0	0
V	90	5	0	0	0	0	0	0	0

Cruzeiro	isóbata	Prof	PN S15 7U	PN S16 7U	PN S18 7U	PN S19 7U	PN S22 7U	PN S24 7U	PN S27 7U
I	100	5	0	0	0	448798.95	0	0	0
I	100	50	0	0	0	79474.814	0	0	0
I	130	5	0	0	0	44879.895	0	0	0
I	130	73	0	0	0	4155.5458	0	0	0
I	20	5	0	0	0	0	0	0	0
I	25	5	0	0	0	0	0	0	0

I	30	5	424.99901	1274.997	0	0	0	0	0
I	40	40	0	0	0	21816.616	0	0	0
I	40	5	0	0	0	1869.9956	0	0	0
I	50	40	0	0	3116.6594	12466.638	0	0	0
I	50	5	0	0	2493.3275	2493.3275	0	0	0
I	60	5	0	0	0	67319.843	0	0	0
I	60	50	0	0	0	0	0	0	0
I	70	5	0	0	0	93499.781	0	0	0
I	70	50	0	0	0	6954046.2	0	0	0
I	80	50	0	0	0	0	0	0	0
I	90	50	0	0	0	934.99781	0	0	0
II	100	42	0	0	0	0	0	0	0
II	100	5	0	83910.06	0	0	0	0	0
II	120	5	0	0	0	0	0	0	0
II	120	60	0	0	0	0	0	0	0
II	140	5	0	0	0	0	0	140	0
II	140	80	0	0	0	0	0	0	467.49891
II	20	18	0	0	0	0	0	0	0
II	20	5	0	0	0	0	0	0	0
II	25	20	0	0	0	0	0	0	0
II	30	20	0	0	0	0	0	0	0
II	30	5	0	0	0	0	0	0	0
II	35	30	0	0	0	0	0	0	0
II	35	5	0	0	0	0	0	0	0
II	40	25	0	0	0	0	0	0	0
II	40	5	0	0	0	0	0	0	0
II	45	40	0	0	0	0	0	0	0
II	45	5	2671.4223	0	0	0	0	0	0
II	50	35	0	0	0	0	0	0	0
II	50	5	0	0	0	0	0	0	0
II	60	5	0	0	0	0	0	0	0
II	60	50	0	0	0	0	0	0	0
II	70	42	0	0	0	0	0	0	0
II	70	5	0	0	0	0	0	0	0
II	80	50	0	0	0	0	0	0	0
II	90	35	0	0	0	0	0	0	0
II	90	5	0	0	0	0	0	0	0
III	100	5	0	0	0	0	0	0	0
III	100	65	0	0	0	0	0	0	0
III	120	5	0	0	0	0	0	0	0
III	120	72	0	0	0	0	0	0	0
III	140	5	0	0	0	0	0	0	0
III	140	80	0	0	0	0	0	0	0
III	20	5	0	0	0	0	934.99781	0	0
III	25	22	0	0	3116.6594	1246.6638	0	0	0
III	25	5	0	0	0	0	0	0	0
III	30	25	0	0	7479.9825	0	0	0	1869.9956
III	30	5	0	0	6925.9097	1385.1819	0	0	6925.9097
III	35	26	0	0	0	0	0	0	0
III	35	5	0	0	0	747.99825	0	0	0
III	40	15	0	0	0	0	0	0	0
III	45	5	0	0	0	0	0	0	0
III	45	5	0	0	0	0	0	0	0
III	50	40	0	0	0	0	0	0	0
III	50	5	0	0	0	0	0	0	0
III	60	40	0	0	0	0	0	0	0
III	60	5	0	0	0	0	0	0	0
III	70	37	0	0	0	7479.9825	0	0	0
III	70	5	0	0	0	0	0	0	0
III	80	40	0	0	0	0	0	0	0
III	80	5	0	0	0	232710.57	0	0	0
III	90	49	0	0	0	0	0	0	0
III	90	5	0	0	0	934.99781	0	0	0

IV	100	5	0	0	0	0	0	0	0
IV	100	50	0	0	0	0	0	0	0
IV	120	5	0	0	0	0	0	0	0
IV	120	67	0	0	0	0	0	0	0
IV	140	5	0	0	0	0	0	0	0
IV	140	60	0	0	0	0	0	0	0
IV	20	5	0	0	0	0	0	0	0
IV	25	5	0	0	0	0	0	0	0
IV	30	5	0	0	0	0	0	0	0
IV	35	5	0	0	0	0	0	0	0
IV	40	5	0	0	0	0	0	0	0
IV	45	5	0	0	0	0	0	0	0
IV	50	11	0	0	0	0	0	0	0
IV	50	5	0	0	0	0	0	0	0
IV	60	5	0	0	0	0	0	0	0
IV	70	5	0	0	0	0	0	0	0
IV	80	5	0	0	0	0	0	0	0
IV	80	52	0	0	0	0	0	0	0
IV	90	5	0	0	0	0	0	0	0
IV	90	50	0	0	0	0	0	0	0
V	100	5	0	0	1121.9974	0	0	0	0
V	120	5	0	0	40	0	0	0	0
V	20	5	0	0	0	0	0	0	0
V	25	5	0	0	0	0	0	0	0
V	30	5	0	0	0	0	0	0	0
V	35	5	0	0	0	0	0	0	0
V	40	5	0	0	0	0	0	0	0
V	45	5	0	0	0	0	0	0	0
V	50	5	0	0	0	0	0	0	0
V	60	5	0	0	0	0	0	0	0
V	70	5	0	0	0	0	0	0	0
V	80	5	0	0	0	0	0	0	0
V	90	5	0	0	40	0	0	0	0

Cruzeiro	isóbata	Prof	PN S28 7U	PN S29 7U	PN S30 7U	PN S31 7U	PN S32 7U	PN S33 7U	PN s34 7U
I	100	5	0	0	0	0	0	0	0
I	100	50	0	0	0	0	0	0	0
I	130	5	0	0	0	0	0	0	0
I	130	73	0	0	0	0	0	0	0
I	20	5	0	0	0	0	0	0	0
I	25	5	0	0	0	0	0	0	0
I	30	5	0	0	0	0	0	0	0
I	40	40	0	0	1869.9956	623.33188	0	0	0
I	40	5	0	0	0	0	0	0	0
I	50	40	0	0	0	0	0	0	0
I	50	5	0	0	0	0	0	0	0
I	60	5	0	0	0	0	0	0	0
I	60	50	0	0	0	0	0	0	0
I	70	5	0	0	0	0	0	0	0
I	70	50	0	0	0	0	0	0	0
I	80	50	0	0	0	0	0	0	0
I	90	50	0	0	0	0	0	0	0
II	100	42	0	0	0	0	0	0	0
II	100	5	0	0	0	0	0	0	0
II	120	5	0	0	0	0	0	0	0
II	120	60	0	0	623.33188	0	0	0	0
II	140	5	0	0	0	0	0	934.99781	0
II	140	80	0	0	0	0	0	0	0
II	20	18	0	0	0	0	0	0	0
II	20	5	0	0	0	0	0	0	0
II	25	20	0	0	0	0	0	0	0
II	30	20	0	0	0	0	0	0	0

II	30	5	0	0	0	0	0	0	0
II	35	30	0	0	0	0	0	0	0
II	35	5	0	0	0	0	0	0	0
II	40	25	0	0	0	0	0	0	0
II	40	5	0	0	0	0	0	0	0
II	45	40	0	0	0	0	0	0	0
II	45	5	0	0	0	0	0	0	0
II	50	35	0	0	0	0	0	0	0
II	50	5	0	0	0	0	0	0	0
II	60	5	0	0	0	0	0	0	0
II	60	50	0	0	0	0	0	0	0
II	70	42	0	0	0	0	0	0	0
II	70	5	0	0	0	0	0	0	0
II	80	50	0	0	0	0	0	0	0
II	90	35	0	0	0	0	0	0	0
II	90	5	0	0	0	0	0	0	0
III	100	5	0	0	0	0	0	0	0
III	100	65	0	0	0	0	0	0	0
III	120	5	0	0	0	0	0	0	0
III	120	72	0	0	0	0	0	0	0
III	140	5	0	0	0	0	0	80	0
III	140	80	0	0	0	0	0	0	0
III	20	5	0	0	0	0	0	0	0
III	25	22	623.33188	0	0	0	0	0	0
III	25	5	623.33188	0	623.33188	0	0	0	0
III	30	25	0	80	8414.9803	0	0	0	0
III	30	5	0	0	0	0	0	0	0
III	35	26	0	0	0	0	0	0	0
III	35	5	0	0	1495.9965	0	0	0	0
III	40	15	0	0	0	0	0	0	0
III	45	5	0	0	0	0	0	0	0
III	45	5	4363.3231	0	0	180	20	0	0
III	50	40	0	0	0	0	0	0	0
III	50	5	0	0	0	0	0	0	0
III	60	40	0	0	0	0	0	40	23374.945
III	60	5	0	0	0	0	0	440	0
III	70	37	0	0	0	0	0	120	0
III	70	5	0	0	0	0	0	0	0
III	80	40	0	0	0	20	0	0	0
III	80	5	0	0	0	0	0	177.77778	0
III	90	49	0	0	0	40	0	40	0
III	90	5	0	0	0	0	0	160	0
IV	100	5	0	0	0	0	0	0	0
IV	100	50	0	0	0	0	0	0	0
IV	120	5	0	0	0	0	0	0	0
IV	120	67	0	0	0	0	0	0	0
IV	140	5	0	0	0	0	0	0	0
IV	140	60	0	0	0	0	0	0	0
IV	20	5	0	0	1120	0	0	0	0
IV	25	5	0	0	40	0	0	0	0
IV	30	5	0	0	0	0	0	0	0
IV	35	5	0	0	80	0	0	0	0
IV	40	5	0	0	440	0	0	0	0
IV	45	5	0	0	0	0	0	0	0
IV	50	11	0	0	460	0	0	0	0
IV	50	5	0	0	0	0	0	0	0
IV	60	5	0	0	0	0	0	0	0
IV	70	5	0	0	0	0	0	0	0
IV	80	5	0	0	0	0	0	0	0
IV	80	52	0	0	0	0	0	0	0
IV	90	5	0	0	0	0	0	0	0
IV	90	50	0	0	0	0	0	0	0
V	100	5	0	0	0	0	0	0	0

V	120	5	0	0	0	0	0	0	0
V	20	5	0	0	0	0	0	0	0
V	25	5	0	0	0	0	0	0	0
V	30	5	0	0	3739.9913	0	0	0	0
V	35	5	0	0	0	0	0	0	0
V	40	5	0	0	0	0	0	0	0
V	45	5	0	0	0	0	0	0	0
V	50	5	0	0	0	0	0	0	0
V	60	5	0	0	0	0	0	0	0
V	70	5	0	0	0	0	0	0	0
V	80	5	0	0	0	0	0	0	0
V	90	5	0	0	0	0	0	0	0

Cruzeiro	isóbata	Prof	PN S35 7U	PN S36 7U	PN S37 7U	PN SP4 7U	PN sp5 7U	PN SP7 7U	PN SP8 7U
I	100	5	0	0	0	0	0	0	0
I	100	50	0	0	0	0	0	0	0
I	130	5	0	80	0	0	0	0	0
I	130	73	0	0	0	0	0	0	0
I	20	5	0	0	0	0	0	0	0
I	25	5	0	0	0	0	0	0	0
I	30	5	0	0	0	0	0	0	50
I	40	40	0	0	0	0	0	0	0
I	40	5	0	0	0	0	0	0	0
I	50	40	0	0	0	0	0	0	0
I	50	5	0	0	0	0	0	0	0
I	60	5	0	0	0	0	0	0	0
I	60	50	0	0	0	0	0	0	0
I	70	5	0	0	0	0	0	0	0
I	70	50	0	0	0	0	0	0	0
I	80	50	0	0	0	0	0	0	0
I	90	50	0	0	0	0	0	0	0
II	100	42	0	0	0	0	0	0	0
II	100	5	599.35757	0	0	0	0	0	0
II	120	5	20	0	0	0	0	0	0
II	120	60	0	0	0	0	0	0	0
II	140	5	0	0	0	0	0	0	0
II	140	80	0	0	0	0	0	0	0
II	20	18	0	0	0	0	0	0	0
II	20	5	0	0	0	0	0	0	0
II	25	20	0	0	0	0	0	0	0
II	30	20	0	0	0	0	0	90.909091	0
II	30	5	0	0	0	0	0	0	0
II	35	30	0	0	0	0	0	0	0
II	35	5	0	0	0	0	0	0	0
II	40	25	0	0	0	0	0	0	0
II	40	5	0	0	0	0	0	2337.4945	0
II	45	40	0	0	0	0	0	0	0
II	45	5	0	0	0	0	0	1335.7112	0
II	50	35	0	0	0	0	0	0	0
II	50	5	0	0	0	0	0	0	0
II	60	5	0	0	0	0	0	200	0
II	60	50	0	0	0	0	0	0	0
II	70	42	0	0	0	0	3739.9913	0	0
II	70	5	0	0	80	0	0	0	0
II	80	50	0	0	0	40	0	703.33188	1246.6638
II	90	35	0	0	0	0	0	0	0
II	90	5	0	0	0	0	0	0	0
III	100	5	0	0	0	0	0	0	0
III	100	65	0	0	0	0	0	0	0
III	120	5	0	0	0	0	0	0	0
III	120	72	0	0	0	0	0	0	0
III	140	5	0	0	0	0	0	0	0

III	140	80	0	0	0	0	0	0	0
III	20	5	0	0	0	0	0	0	0
III	25	22	0	0	0	0	0	0	0
III	25	5	0	0	1869.9956	0	0	0	0
III	30	25	0	0	0	0	0	0	0
III	30	5	0	0	0	0	0	0	0
III	35	26	0	0	0	0	0	0	0
III	35	5	0	0	1121.9974	0	0	0	0
III	40	15	0	0	0	0	0	0	0
III	45	5	0	0	0	0	0	0	0
III	45	5	0	0	0	0	0	0	0
III	50	40	0	0	0	0	0	0	0
III	50	5	0	0	0	0	0	0	0
III	60	40	0	0	0	0	0	0	0
III	60	5	0	0	0	0	0	0	0
III	70	37	20	0	0	0	0	0	0
III	70	5	0	69.767442	0	0	0	0	0
III	80	40	0	0	120	0	0	0	0
III	80	5	0	0	0	0	0	0	0
III	90	49	40	0	0	0	0	0	0
III	90	5	0	0	0	0	0	0	0
IV	100	5	0	0	0	0	0	0	0
IV	100	50	0	0	0	0	0	0	0
IV	120	5	0	0	0	0	0	0	0
IV	120	67	0	20	0	0	0	0	0
IV	140	5	0	0	0	0	0	0	0
IV	140	60	0	0	0	0	0	0	0
IV	20	5	0	0	0	0	0	0	0
IV	25	5	0	0	0	0	0	0	0
IV	30	5	0	0	0	0	0	0	0
IV	35	5	0	0	0	0	0	0	0
IV	40	5	0	0	0	0	0	0	0
IV	45	5	0	0	0	0	0	0	0
IV	50	11	0	0	0	0	0	0	0
IV	50	5	0	0	0	0	0	0	0
IV	60	5	0	40	0	0	0	0	0
IV	70	5	0	40	0	0	0	0	0
IV	80	5	0	0	0	0	0	0	0
IV	80	52	0	0	0	0	0	0	0
IV	90	5	0	0	0	0	0	0	0
IV	90	50	0	0	0	0	0	0	0
V	100	5	0	0	0	0	0	0	0
V	120	5	0	0	0	0	0	0	0
V	20	5	0	0	0	0	0	0	0
V	25	5	0	0	0	0	0	0	0
V	30	5	0	0	0	0	0	0	0
V	35	5	0	0	0	0	0	0	0
V	40	5	0	0	0	0	0	0	0
V	45	5	0	0	0	0	0	0	0
V	50	5	0	0	0	0	0	0	0
V	60	5	0	0	0	0	0	0	0
V	70	5	0	0	0	0	0	0	0
V	80	5	0	0	0	0	0	0	0
V	90	5	0	0	0	0	0	0	0

Cruzeiro	isóbata	Prof	PN SP9 7U	PR ALL 7R	PZ SP1 7U	PZ SP2 7U	RP SPP 7U	RH CAL 7R	RH SP5 7R
I	100	5	0	0	0	0	0	0	0
I	100	50	0	0	0	2804.9934	0	0	0
I	130	5	0	0	0	0	20	20	0
I	130	73	0	22.222222	0	0	0	0	0
I	20	5	0	0	0	61709.856	0	0	120
I	25	5	0	200	0	56099.869	0	0	0

I	30	5	0	50	400	10199.976	0	0	0
I	40	40	0	0	1869.9956	0	0	0	0
I	40	5	0	180	20	5796.9864	0	80	0
I	50	40	0	150	400	0	0	0	0
I	50	5	0	66.666667	200	0	0	0	0
I	60	5	0	40	0	0	0	0	0
I	60	50	0	40	0	1869.9956	0	0	0
I	70	5	0	25	0	0	0	0	0
I	70	50	0	0	0	0	0	0	0
I	80	50	0	0	0	0	0	0	0
I	90	50	0	0	0	934.99781	0	0	0
II	100	42	934.99781	60	0	3739.9913	0	0	0
II	100	5	76.923077	435.89744	12923.077	0	25.641026	230.76923	0
II	120	5	0	840	2980	0	0	0	0
II	120	60	0	0	0	1246.6638	0	0	0
II	140	5	0	0	0	0	0	0	0
II	140	80	0	0	0	0	0	0	60
II	20	18	0	0	225.68913	0	0	0	0
II	20	5	0	0	29678.12	0	0	0	0
II	25	20	0	0	0	11219.974	0	0	0
II	30	20	0	0	90.909091	2428.5657	0	0	0
II	30	5	0	0	120	747.99825	0	0	0
II	35	30	0	0	0	4808.5602	0	0	0
II	35	5	0	0	66.666667	4155.5458	0	0	0
II	40	25	0	460	140	4207.4902	0	0	0
II	40	5	0	640	40	934.99781	0	120	0
II	45	40	0	0	171.42857	0	0	0	0
II	45	5	0	0	2671.4223	8014.267	0	0	0
II	50	35	456.09649	73.170732	0	4104.8684	0	0	0
II	50	5	0	300	0	6918.9838	0	0	0
II	60	5	0	0	6840	1869.9956	40	0	0
II	60	50	0	0	200	3116.6594	0	0	0
II	70	42	3739.9913	760	440	31789.926	0	0	0
II	70	5	0	520	0	0	0	0	0
II	80	50	0	280	0	623.33188	0	0	0
II	90	35	0	0	225.68913	0	0	0	0
II	90	5	0	600	840	11967.972	0	0	0
III	100	5	0	0	0	0	0	0	0
III	100	65	0	0	0	0	0	0	0
III	120	5	0	0	0	0	0	0	0
III	120	72	0	0	20	0	0	0	0
III	140	5	0	0	0	0	0	0	0
III	140	80	0	0	0	0	0	0	0
III	20	5	0	720	3040	0	0	0	0
III	25	22	0	320	760	3739.9913	0	0	0
III	25	5	0	880	720	2493.3275	623.33188	0	0
III	30	25	0	120	2600	3739.9913	0	0	0
III	30	5	0	622.22222	88.888889	8311.0917	0	0	0
III	35	26	0	0	60	0	0	0	0
III	35	5	0	0	40	0	20	0	0
III	40	15	0	0	0	2493.3275	0	0	0
III	45	5	0	0	0	0	0	0	0
III	45	5	0	0	0	0	0	0	0
III	50	40	0	0	0	1246.6638	0	0	0
III	50	5	0	0	0	0	0	0	0
III	60	40	0	0	0	0	0	0	0
III	60	5	0	0	0	3739.9913	0	0	0
III	70	37	0	0	40	0	0	0	0
III	70	5	0	0	0	0	0	0	23.255814
III	80	40	0	0	0	0	0	0	0
III	80	5	0	44.444444	0	0	0	0	0
III	90	49	0	0	0	0	0	0	0
III	90	5	0	40	0	0	0	0	0

IV	100	5	0	0	0	0	0	0	0
IV	100	50	0	0	20	0	0	0	0
IV	120	5	0	0	0	0	0	0	0
IV	120	67	0	0	0	0	0	0	0
IV	140	5	0	20	0	5609.9869	0	0	0
IV	140	60	0	20	0	0	0	0	0
IV	20	5	0	160	560	18699.956	0	0	0
IV	25	5	0	0	240	29919.93	0	0	0
IV	30	5	0	80	960	37399.913	0	0	0
IV	35	5	0	0	0	1869.9956	0	0	0
IV	40	5	0	0	0	0	0	0	0
IV	45	5	0	0	0	4274.2757	0	0	0
IV	50	11	0	20	160	1869.9956	0	0	0
IV	50	5	0	0	0	4861.9886	0	0	0
IV	60	5	0	0	80	0	0	0	0
IV	70	5	0	0	0	0	0	0	0
IV	80	5	0	0	0	0	0	0	0
IV	80	52	0	0	0	0	0	0	0
IV	90	5	0	20	0	0	0	0	0
IV	90	50	0	0	0	0	0	0	0
V	100	5	0	0	0	0	0	0	0
V	120	5	0	40	20	0	0	0	0
V	20	5	0	0	0	0	0	0	0
V	25	5	0	0	0	0	0	0	0
V	30	5	0	0	0	0	0	0	0
V	35	5	0	0	0	0	0	0	0
V	40	5	0	0	0	0	0	0	0
V	45	5	0	0	0	0	0	0	0
V	50	5	0	0	0	0	0	0	0
V	60	5	0	0	0	0	0	0	0
V	70	5	0	0	0	0	0	0	0
V	80	5	0	0	0	0	0	0	0
V	90	5	0	40	20	0	0	0	0

Cruzeiro	isóbata	Prof	RH IMB 7R	RH ROB 7R	RH SET 7R	RH SP6 7R	RH SPP 7R	SK COS 7H	SP SP1 7H
I	100	5	0	0	0	0	0	0	0
I	100	50	0	0	0	0	0	0	0
I	130	5	0	0	0	0	0	0	0
I	130	73	0	0	0	0	0	0	0
I	20	5	80	0	0	0	0	177649.58	0
I	25	5	0	0	0	0	0	607748.58	0
I	30	5	0	50	0	0	0	9349.9781	0
I	40	40	0	0	0	0	0	8103.3144	0
I	40	5	0	0	0	0	0	1495.9965	0
I	50	40	0	50	0	0	0	200	0
I	50	5	0	0	0	0	0	656.66521	33.333333
I	60	5	0	0	0	0	0	0	0
I	60	50	0	0	0	0	0	420	0
I	70	5	0	0	0	0	0	0	0
I	70	50	0	0	0	0	0	0	0
I	80	50	0	0	0	0	0	0	0
I	90	50	0	0	0	0	0	0	0
II	100	42	0	0	0	0	0	0	0
II	100	5	0	0	0	0	0	0	0
II	120	5	0	0	0	0	280	0	0
II	120	60	0	0	0	0	0	0	0
II	140	5	0	0	0	0	0	0	0
II	140	80	0	0	0	0	0	0	0
II	20	18	0	0	0	0	451.37825	0	0
II	20	5	0	0	0	0	0	0	2031.2021
II	25	20	0	0	0	0	0	18957.887	0
II	30	20	0	0	0	0	0	136.36364	0

II	30	5	0	0	0	0	0	0	0
II	35	30	0	0	0	171.42857	57.142857	0	0
II	35	5	0	0	0	333.33333	0	0	0
II	40	25	0	0	0	0	0	0	0
II	40	5	0	0	0	0	0	0	0
II	45	40	0	0	0	0	0	0	0
II	45	5	0	0	0	0	0	0	0
II	50	35	0	0	0	0	0	170.73171	0
II	50	5	0	0	0	0	0	0	0
II	60	5	0	0	0	0	80	0	0
II	60	50	0	0	0	0	360	0	0
II	70	42	0	0	0	0	40	0	0
II	70	5	0	0	0	0	0	0	0
II	80	50	0	0	0	0	400	0	0
II	90	35	0	0	0	0	0	0	0
II	90	5	0	0	0	0	100	0	0
III	100	5	0	0	46.511628	0	0	0	0
III	100	65	0	0	0	0	0	0	0
III	120	5	0	0	0	0	0	0	0
III	120	72	0	0	0	0	0	0	0
III	140	5	0	0	0	0	0	0	0
III	140	80	0	0	0	0	0	0	0
III	20	5	0	0	200	0	0	0	0
III	25	22	40	0	240	0	0	0	0
III	25	5	40	0	40	0	0	0	0
III	30	25	0	0	0	0	0	0	0
III	30	5	88.888889	0	488.88889	0	0	0	0
III	35	26	0	60	0	0	0	0	0
III	35	5	0	0	240	0	0	1575.9965	0
III	40	15	0	0	80	0	0	0	0
III	45	5	0	0	0	0	0	0	0
III	45	5	0	0	20	0	0	0	0
III	50	40	0	0	0	0	0	0	0
III	50	5	0	0	40	0	0	0	0
III	60	40	0	0	0	0	0	0	0
III	60	5	0	0	80	0	0	0	0
III	70	37	0	0	40	0	0	0	0
III	70	5	0	0	0	0	0	0	0
III	80	40	0	0	0	0	0	0	0
III	80	5	0	0	0	0	0	0	0
III	90	49	0	0	0	0	0	0	0
III	90	5	0	0	240	0	0	0	0
IV	100	5	0	0	0	0	0	0	0
IV	100	50	0	0	0	0	0	0	0
IV	120	5	0	0	0	0	0	0	0
IV	120	67	0	0	0	0	0	0	0
IV	140	5	0	0	0	0	0	0	0
IV	140	60	0	0	0	0	0	0	0
IV	20	5	0	0	0	0	0	0	0
IV	25	5	0	0	40	0	0	3739.9913	0
IV	30	5	0	0	400	0	0	3739.9913	0
IV	35	5	0	0	0	0	0	0	0
IV	40	5	0	0	0	0	0	0	0
IV	45	5	0	0	0	0	0	0	0
IV	50	11	0	0	0	0	0	0	0
IV	50	5	0	0	0	0	0	0	0
IV	60	5	0	0	0	0	0	0	0
IV	70	5	0	0	0	0	0	0	0
IV	80	5	0	0	0	0	0	0	0
IV	80	52	0	0	0	0	0	0	0
IV	90	5	0	0	0	0	0	0	0
IV	90	50	0	0	0	0	0	0	0
V	100	5	0	0	0	0	0	0	0

V	120	5	0	0	0	0	0	0	0
V	20	5	0	0	0	0	0	0	0
V	25	5	0	0	0	0	0	0	0
V	30	5	0	0	0	0	0	0	0
V	35	5	0	0	0	0	0	0	0
V	40	5	0	0	0	0	0	0	0
V	45	5	0	0	0	0	0	0	0
V	50	5	0	0	0	0	0	0	0
V	60	5	0	0	0	0	0	0	0
V	70	5	0	0	0	0	0	0	0
V	80	5	0	0	0	0	0	0	0
V	90	5	0	0	0	0	0	0	0

Cruzeiro	isóbata	Prof	SP SP1 7R	SU SPP 7U	TP SPP 7U	TH NIT 7T	TH SP7 7R	TH SP3 7R	TH SP1 7R
I	100	5	0	0	0	80	0	0	467.49891
I	100	50	0	40	0	1929.9956	0	120	20
I	130	5	0	0	0	0	0	20	0
I	130	73	0	0	0	0	0	44.444444	0
I	20	5	0	0	3979.9913	3979.9913	0	400	0
I	25	5	0	0	0	1100	0	0	0
I	30	5	0	0	0	650	0	500	0
I	40	40	0	40	0	180	0	160	0
I	40	5	0	0	0	0	0	280	0
I	50	40	0	0	0	650	50	1250	0
I	50	5	0	33.333333	0	700	133.33333	633.33333	0
I	60	5	0	0	0	20	0	20	0
I	60	50	0	0	0	60	0	200	0
I	70	5	0	0	0	0	0	25	0
I	70	50	0	0	0	50	0	275	0
I	80	50	0	0	0	120	20	260	0
I	90	50	0	0	0	40	0	0	20
II	100	42	0	0	0	3272.4923	0	0	0
II	100	5	0	0	0	0	0	0	0
II	120	5	0	0	0	100	0	0	0
II	120	60	0	0	0	0	0	0	0
II	140	5	0	0	0	0	0	0	0
II	140	80	0	0	0	467.49891	0	0	0
II	20	18	0	0	0	0	0	0	0
II	20	5	0	0	0	2708.2695	0	0	0
II	25	20	0	0	0	507.80054	0	0	338.53369
II	30	20	0	0	0	2564.9294	0	331.16883	0
II	30	5	0	0	0	413.99913	0	40	0
II	35	30	0	57.142857	0	0	0	0	0
II	35	5	0	0	0	533.33333	0	0	0
II	40	25	0	0	0	60	0	0	20
II	40	5	0	0	0	0	0	0	2320
II	45	40	0	0	0	514.28571	0	0	0
II	45	5	0	0	0	0	0	0	0
II	50	35	0	0	0	0	0	414.63415	0
II	50	5	0	0	0	373.99913	0	20	0
II	60	5	0	40	0	1869.9956	0	0	0
II	60	50	0	0	0	3116.6594	0	0	0
II	70	42	0	0	0	0	0	0	0
II	70	5	0	0	0	40	0	0	0
II	80	50	0	0	0	80	623.33188	0	0
II	90	35	0	0	0	789.91195	0	0	0
II	90	5	0	0	0	0	0	0	0
III	100	5	0	0	0	0	0	23.255814	0
III	100	65	0	0	2200	0	0	800	0
III	120	5	0	0	0	0	0	20	0
III	120	72	20	0	0	0	20	1400	0
III	140	5	0	0	0	0	0	0	0

III	140	80	0	20	0	140	0	0	20
III	20	5	80	0	0	3480	0	840	40
III	25	22	0	80	0	1120	1246.6638	40	1869.9956
III	25	5	0	0	0	920	0	80	1246.6638
III	30	25	0	120	0	600	0	1160	0
III	30	5	0	0	0	0	0	133.33333	2077.7729
III	35	26	0	40	0	320	0	0	20
III	35	5	0	0	0	40	0	0	393.99913
III	40	15	0	0	0	60	0	20	20
III	45	5	0	20	0	360	0	20	0
III	45	5	0	0	0	180	0	80	0
III	50	40	0	160	0	0	0	200	40
III	50	5	0	0	0	80	0	0	80
III	60	40	0	0	0	200	0	0	0
III	60	5	0	0	0	80	0	160	0
III	70	37	0	0	0	0	0	160	0
III	70	5	0	0	0	0	0	372.09302	0
III	80	40	0	0	0	180	0	60	40
III	80	5	0	0	0	0	0	533.33333	0
III	90	49	0	0	0	0	0	120	0
III	90	5	0	0	0	0	0	80	80
IV	100	5	0	0	0	0	0	0	0
IV	100	50	0	0	0	0	0	20	0
IV	120	5	0	0	0	0	0	0	0
IV	120	67	0	0	0	0	0	0	0
IV	140	5	0	0	0	0	0	40	0
IV	140	60	0	0	0	0	0	0	20
IV	20	5	0	0	0	13059.974	0	80	0
IV	25	5	0	0	0	2720	0	40	0
IV	30	5	0	0	0	2040	0	0	0
IV	35	5	0	0	0	200	0	0	0
IV	40	5	0	80	0	0	0	0	80
IV	45	5	0	20	0	0	0	20	0
IV	50	11	0	0	0	0	0	0	0
IV	50	5	0	0	0	0	0	0	100
IV	60	5	0	0	0	0	0	0	0
IV	70	5	0	0	0	0	0	0	0
IV	80	5	0	0	0	0	0	0	0
IV	80	52	0	20	0	0	0	20	0
IV	90	5	0	0	0	0	0	0	0
IV	90	50	0	0	0	0	0	0	0
V	100	5	0	0	0	60	0	0	453.99913
V	120	5	0	0	0	40	0	0	60
V	20	5	0	0	0	80	0	80	80
V	25	5	0	40	0	160	0	40	0
V	30	5	0	0	0	80	0	80	0
V	35	5	0	0	0	360	0	0	160
V	40	5	0	40	0	0	0	0	0
V	45	5	0	0	0	260	0	60	0
V	50	5	0	0	0	260	0	60	220
V	60	5	0	0	0	400	0	0	280
V	70	5	0	0	0	40	0	20	80
V	80	5	0	0	0	40	0	20	80
V	90	5	0	0	0	40	0	0	60

Cruzeiro	isóbata	Prof	TH SP4 7R	TH SP8 7R	TH SP5 7R	TH SP6 7R	TH SPP 7R	TH MIC 7R	TH FRA 7T
I	100	5	0	0	0	0	0	0	0
I	100	50	0	0	0	0	0	0	0
I	130	5	20	0	0	0	0	0	0
I	130	73	0	0	88.888889	0	0	0	22.222222
I	20	5	0	0	160	0	0	0	0
I	25	5	100	0	0	0	0	0	0
I	30	5	0	0	0	0	250	0	1274.997
I	40	40	1246.6638	0	60	0	0	0	0
I	40	5	0	0	0	0	0	0	700
I	50	40	350	550	0	0	1500	0	0
I	50	5	0	566.66667	33.333333	0	66.666667	0	0
I	60	5	20	0	0	0	0	0	0
I	60	50	0	0	60	0	0	0	0
I	70	5	0	0	0	0	0	0	0
I	70	50	0	0	2337.4945	0	0	0	0
I	80	50	0	0	80	0	0	0	0
I	90	50	0	0	0	0	0	0	0
II	100	42	0	0	0	0	20	0	0
II	100	5	0	0	0	0	0	0	0
II	120	5	0	0	0	0	80	0	0
II	120	60	0	0	0	0	0	0	0
II	140	5	0	0	0	0	20	0	0
II	140	80	0	0	20	0	40	0	0
II	20	18	0	0	0	0	2031.2021	0	0
II	20	5	0	0	0	0	112.84456	0	0
II	25	20	0	0	0	0	0	0	0
II	30	20	90.909091	0	0	0	0	0	0
II	30	5	120	0	0	0	0	373.99913	0
II	35	30	0	0	0	0	342.85714	0	0
II	35	5	0	0	0	0	133.33333	0	0
II	40	25	0	0	0	0	0	233.74945	0
II	40	5	0	0	0	0	160	467.49891	0
II	45	40	0	0	0	0	0	0	0
II	45	5	0	0	0	0	0	4007.1335	0
II	50	35	121.95122	0	0	0	195.12195	456.09649	0
II	50	5	0	0	0	40	0	0	0
II	60	5	0	0	0	0	240	0	0
II	60	50	0	0	0	0	623.33188	0	0
II	70	42	0	0	0	0	0	0	0
II	70	5	0	0	120	0	0	0	0
II	80	50	80	0	0	0	0	0	0
II	90	35	0	0	0	0	0	0	0
II	90	5	0	0	0	0	0	0	0
III	100	5	0	0	0	0	0	0	0
III	100	65	0	0	200	0	0	0	0
III	120	5	0	0	0	0	0	0	0
III	120	72	0	0	0	0	0	0	0
III	140	5	0	0	0	0	0	0	0
III	140	80	0	0	0	0	0	0	0
III	20	5	120	0	0	0	0	0	0
III	25	22	0	0	200	0	0	0	120
III	25	5	0	0	0	0	0	0	440
III	30	25	0	0	0	0	0	0	0
III	30	5	0	0	0	0	0	0	666.66667
III	35	26	0	0	0	0	0	0	0
III	35	5	0	0	0	0	0	0	0
III	40	15	0	0	40	0	0	0	20
III	45	5	0	0	0	0	0	0	0

III	45	5	0	0	20	0	0	0	0
III	50	40	0	0	0	0	0	0	0
III	50	5	0	0	0	0	0	0	0
III	60	40	0	0	0	0	0	0	40
III	60	5	0	0	0	0	0	0	0
III	70	37	0	0	0	0	0	0	0
III	70	5	0	0	0	0	0	0	0
III	80	40	0	0	20	0	0	0	40
III	80	5	0	0	0	0	0	0	0
III	90	49	0	0	0	0	0	0	0
III	90	5	0	0	0	0	0	0	0
IV	100	5	0	0	0	0	0	0	0
IV	100	50	0	0	0	0	0	0	0
IV	120	5	0	0	0	0	0	0	0
IV	120	67	0	0	0	0	0	0	0
IV	140	5	0	0	0	0	0	0	0
IV	140	60	0	0	0	0	0	0	0
IV	20	5	0	0	0	0	0	0	80
IV	25	5	40	0	0	0	0	0	360
IV	30	5	0	0	0	0	0	80	0
IV	35	5	0	0	320	0	0	0	0
IV	40	5	0	0	120	0	0	0	0
IV	45	5	20	0	140	0	0	0	0
IV	50	11	0	0	0	0	0	0	0
IV	50	5	0	0	100	0	0	0	0
IV	60	5	0	0	160	0	0	0	0
IV	70	5	0	0	0	0	0	0	0
IV	80	5	0	0	0	0	0	0	0
IV	80	52	0	0	0	0	0	0	0
IV	90	5	0	0	0	0	0	0	0
IV	90	50	0	0	20	0	0	0	0
V	100	5	20	0	0	0	0	0	0
V	120	5	0	0	0	0	0	0	0
V	20	5	480	0	0	0	0	0	0
V	25	5	0	0	200	0	0	0	0
V	30	5	0	0	160	0	0	0	0
V	35	5	0	0	0	0	0	0	0
V	40	5	0	0	40	0	0	0	0
V	45	5	0	0	60	0	0	0	0
V	50	5	0	0	60	0	0	0	0
V	60	5	0	0	0	0	0	0	0
V	70	5	0	0	0	0	0	0	0
V	80	5	0	0	0	0	0	0	0
V	90	5	0	0	0	0	0	0	0

Cruzeiro	isóbata	Prof	TR FAV 7O	TY SPP 7U	CE SP6 6L	CE FUS 6D	CE HOR 6L	CE TRI 6L	CE SP7 6D
I	100	5	0	0	40	0	0	0	0
I	100	50	0	0	0	0	0	0	0
I	130	5	0	0	0	0	0	0	0
I	130	73	0	0	0	0	0	0	0
I	20	5	0	40	0	40	0	0	0
I	25	5	0	100	0	100	0	0	0
I	30	5	0	0	0	0	0	0	0
I	40	40	0	623.33188	0	0	0	0	0
I	40	5	0	0	0	0	0	0	0
I	50	40	0	0	0	0	0	0	0
I	50	5	0	0	0	66.666667	0	0	0
I	60	5	0	0	0	0	20	0	0
I	60	50	0	0	20	0	0	0	0
I	70	5	50	0	25	0	0	0	0
I	70	50	0	0	0	0	0	0	0
I	80	50	0	0	0	0	0	0	0

I	90	50	60	934.99781	0	0	0	0	0
II	100	42	20	0	20	0	0	0	0
II	100	5	51.282051	0	0	0	0	0	0
II	120	5	0	0	20	0	0	0	0
II	120	60	0	0	0	0	0	0	0
II	140	5	0	0	0	0	0	0	0
II	140	80	0	0	0	0	0	0	0
II	20	18	0	0	0	0	0	0	0
II	20	5	0	0	0	0	0	0	0
II	25	20	0	0	0	0	169.26685	0	0
II	30	20	0	0	0	0	0	0	0
II	30	5	0	373.99913	0	0	0	0	0
II	35	30	0	1068.5689	0	0	0	0	0
II	35	5	0	0	0	0	0	0	0
II	40	25	0	0	0	0	0	0	0
II	40	5	0	467.49891	0	0	0	0	0
II	45	40	0	0	0	0	0	0	0
II	45	5	0	0	0	0	0	0	0
II	50	35	0	1368.2895	0	0	0	0	0
II	50	5	0	186.99956	0	0	0	0	0
II	60	5	0	0	0	0	0	0	0
II	60	50	0	623.33188	0	0	0	0	0
II	70	42	0	0	0	0	0	0	0
II	70	5	80	0	0	0	0	0	0
II	80	50	0	0	0	0	0	0	0
II	90	35	0	0	0	0	0	0	0
II	90	5	0	0	0	0	0	20	0
III	100	5	0	0	0	0	0	46.511628	0
III	100	65	200	0	0	0	0	0	0
III	120	5	0	0	20	0	0	0	0
III	120	72	0	0	0	0	0	0	0
III	140	5	0	0	0	0	0	0	0
III	140	80	0	20	0	0	0	0	0
III	20	5	0	80	0	0	0	0	0
III	25	22	0	703.33188	0	0	0	0	0
III	25	5	0	0	0	0	0	0	0
III	30	25	0	974.99781	0	0	0	0	0
III	30	5	0	44.444444	0	0	0	0	0
III	35	26	0	0	0	0	0	0	0
III	35	5	0	0	0	0	0	0	0
III	40	15	0	0	0	0	0	0	0
III	45	5	0	20	0	0	0	0	0
III	45	5	0	0	0	0	0	0	0
III	50	40	0	663.33188	0	0	0	0	0
III	50	5	0	0	0	0	0	0	0
III	60	40	40	0	0	0	0	0	0
III	60	5	0	40	0	0	0	0	0
III	70	37	0	0	0	0	0	0	0
III	70	5	0	0	0	0	0	0	0
III	80	40	0	0	0	0	0	0	0
III	80	5	0	0	0	0	0	0	0
III	90	49	0	0	0	0	0	0	0
III	90	5	0	0	0	0	0	0	0
IV	100	5	0	0	0	0	0	0	0
IV	100	50	0	0	0	0	0	0	0
IV	120	5	0	0	0	0	0	0	20
IV	120	67	0	0	0	0	0	0	0
IV	140	5	0	0	0	0	0	0	0
IV	140	60	0	0	0	0	0	0	0
IV	20	5	0	160	0	0	0	0	0
IV	25	5	0	40	0	0	0	0	0
IV	30	5	0	40	0	0	0	0	0
IV	35	5	0	1869.9956	0	0	0	0	0

IV	40	5	0	200	0	0	0	0	0
IV	45	5	0	267.14223	0	0	0	0	0
IV	50	11	0	60	0	0	0	0	0
IV	50	5	0	0	0	0	0	0	0
IV	60	5	0	0	0	0	0	0	0
IV	70	5	0	0	0	0	0	0	0
IV	80	5	0	0	0	0	0	0	0
IV	80	52	0	40	0	0	0	0	0
IV	90	5	0	0	0	0	0	40	0
IV	90	50	0	0	0	0	0	20	20
V	100	5	0	0	0	0	0	0	0
V	120	5	0	0	0	0	0	0	0
V	20	5	0	160	0	0	0	0	0
V	25	5	0	40	0	0	0	0	0
V	30	5	0	0	0	0	0	0	0
V	35	5	0	0	0	0	0	0	0
V	40	5	0	0	0	0	0	0	0
V	45	5	0	0	0	0	0	0	0
V	50	5	0	0	0	0	0	0	0
V	60	5	0	0	0	0	0	0	0
V	70	5	0	0	0	0	0	0	0
V	80	5	0	0	0	0	0	0	0
V	90	5	0	0	0	0	0	0	0

Cruzeiro	isóbata	Prof	CE SP6 6D	CE SP9 6L	CE SPP 6L	CE FUR 6L	CE FUS 6D	CE TRI 6L	CE SP1 6L
I	100	5	0	0	0	20	0	0	0
I	100	50	0	0	0	0	0	0	0
I	130	5	0	0	0	0	0	0	0
I	130	73	0	0	0	0	0	0	0
I	20	5	0	0	0	0	0	0	0
I	25	5	0	0	0	100	0	0	0
I	30	5	0	0	0	0	0	0	0
I	40	40	0	0	0	0	0	0	0
I	40	5	0	0	0	100	0	0	0
I	50	40	0	0	0	0	0	0	0
I	50	5	0	0	0	0	0	0	0
I	60	5	0	0	0	0	0	0	0
I	60	50	0	0	0	0	0	0	0
I	70	5	0	0	0	0	0	0	0
I	70	50	0	0	0	0	0	0	0
I	80	50	0	0	0	0	0	0	0
I	90	50	0	0	0	0	0	0	0
II	100	42	0	0	0	0	0	0	0
II	100	5	0	0	0	0	0	0	0
II	120	5	0	0	0	0	0	0	0
II	120	60	0	0	0	0	0	0	0
II	140	5	0	0	0	0	0	0	0
II	140	80	0	0	0	0	0	0	0
II	20	18	0	0	0	0	0	0	0
II	20	5	0	0	0	0	0	0	0
II	25	20	0	0	0	0	0	0	0
II	30	20	0	0	0	0	0	0	45.454545
II	30	5	0	0	0	0	0	40	0
II	35	30	0	0	0	0	0	0	0
II	35	5	0	0	0	0	0	0	0
II	40	25	0	0	0	0	0	0	0
II	40	5	0	0	0	80	0	0	0
II	45	40	0	0	0	0	0	0	0
II	45	5	0	0	0	0	0	40	0
II	50	35	0	0	0	0	0	24.390244	0
II	50	5	0	0	0	0	0	0	0
II	60	5	0	0	0	40	80	0	0

II	60	50	0	0	0	0	0	0	0
II	70	42	0	0	0	0	0	20	0
II	70	5	0	0	0	0	40	20	0
II	80	50	0	0	0	0	0	0	0
II	90	35	0	0	0	0	0	0	0
II	90	5	0	0	0	0	0	0	0
III	100	5	0	0	0	0	23.255814	0	0
III	100	65	0	0	0	0	0	0	0
III	120	5	0	0	0	0	0	0	0
III	120	72	0	0	0	0	0	0	0
III	140	5	0	0	0	0	0	0	0
III	140	80	0	0	0	0	0	0	0
III	20	5	0	0	0	40	0	0	0
III	25	22	0	0	0	0	0	0	0
III	25	5	0	0	0	40	0	0	0
III	30	25	0	0	0	0	0	0	0
III	30	5	0	0	0	0	88.888889	0	0
III	35	26	0	0	0	0	0	0	0
III	35	5	0	0	0	20	0	0	0
III	40	15	0	0	0	0	0	0	20
III	45	5	0	0	0	0	40	0	0
III	45	5	0	0	0	20	0	0	0
III	50	40	0	0	0	0	0	40	0
III	50	5	0	0	0	0	0	40	0
III	60	40	0	0	0	3560	0	0	0
III	60	5	0	0	0	0	0	0	0
III	70	37	0	0	0	0	0	0	0
III	70	5	0	0	0	0	0	0	0
III	80	40	0	0	0	0	0	0	0
III	80	5	0	0	0	44.444444	0	0	0
III	90	49	0	0	0	0	0	0	0
III	90	5	0	0	0	0	0	0	0
IV	100	5	0	0	0	0	0	0	0
IV	100	50	0	0	0	0	0	0	0
IV	120	5	0	0	0	0	0	0	0
IV	120	67	0	0	0	20	0	0	0
IV	140	5	0	0	0	20	0	0	0
IV	140	60	0	0	0	0	0	0	0
IV	20	5	0	0	0	80	0	0	0
IV	25	5	0	0	0	40	0	0	0
IV	30	5	0	0	0	120	0	40	0
IV	35	5	0	0	0	0	0	0	0
IV	40	5	0	0	0	0	0	0	0
IV	45	5	0	0	0	0	20	0	0
IV	50	11	0	0	0	0	0	0	0
IV	50	5	0	0	0	0	20	0	0
IV	60	5	0	0	0	0	0	0	0
IV	70	5	0	0	0	0	0	40	0
IV	80	5	0	0	0	40	0	0	40
IV	80	52	0	0	0	0	0	0	0
IV	90	5	0	0	0	0	0	20	0
IV	90	50	20	0	0	20	0	0	0
V	100	5	0	0	0	40	20	0	0
V	120	5	0	0	0	0	0	0	0
V	20	5	0	0	0	80	0	0	0
V	25	5	0	40	0	0	0	0	0
V	30	5	0	40	0	0	0	0	0
V	35	5	0	40	0	0	0	0	0
V	40	5	0	0	0	0	40	0	0
V	45	5	0	0	0	0	80	0	0
V	50	5	0	0	0	0	40	0	0
V	60	5	0	0	0	0	0	0	0
V	70	5	0	0	0	0	0	0	0

V	80	5	0	0	0	0	0	0	0
V	90	5	0	0	0	0	0	0	0

Cruzeiro	isóbata	Prof	GO SPP 6L	GO SPP 6F	OX COM 6E	OX SP2 6E	OX SP3 6E	OX VAR 6E	OX SCP 6E
I	100	5	20	20	0	0	20	0	0
I	100	50	0	0	0	0	0	0	0
I	130	5	0	0	0	0	0	0	0
I	130	73	0	0	0	0	0	0	0
I	20	5	0	0	0	0	0	0	0
I	25	5	0	0	0	0	0	0	0
I	30	5	0	150	424.99901	0	0	0	0
I	40	40	0	0	0	0	0	0	20
I	40	5	0	0	0	0	0	0	20
I	50	40	0	0	50	0	0	0	0
I	50	5	0	0	0	0	311.66594	311.66594	0
I	60	5	0	0	0	0	0	0	0
I	60	50	0	0	0	0	0	934.99781	0
I	70	5	0	0	0	0	0	0	0
I	70	50	0	0	0	0	0	0	0
I	80	50	0	0	0	0	0	0	0
I	90	50	0	0	0	0	0	0	0
II	100	42	0	0	0	0	0	0	0
II	100	5	0	0	0	0	0	0	25.641026
II	120	5	0	0	0	0	0	0	20
II	120	60	0	0	0	0	0	0	0
II	140	5	0	0	0	623.33188	0	0	0
II	140	80	0	0	0	0	0	0	0
II	20	18	0	0	0	0	0	0	0
II	20	5	0	0	0	0	0	0	225.68913
II	25	20	0	169.26685	0	0	1869.9956	0	0
II	30	20	0	0	0	0	0	0	142.85714
II	30	5	0	0	0	1869.9956	373.99913	0	40
II	35	30	0	0	0	0	0	0	0
II	35	5	0	0	0	0	5194.4323	0	0
II	40	25	0	0	0	0	0	0	0
II	40	5	0	0	0	0	0	0	0
II	45	40	0	0	0	0	0	0	0
II	45	5	0	0	0	0	0	0	0
II	50	35	0	0	0	0	0	0	0
II	50	5	0	0	0	0	0	0	0
II	60	5	0	0	0	0	311.66594	0	0
II	60	50	0	0	0	0	0	0	0
II	70	42	0	80	0	0	0	0	0
II	70	5	0	0	0	623.33188	0	0	0
II	80	50	0	0	0	0	0	0	0
II	90	35	0	0	0	0	0	0	0
II	90	5	0	0	0	0	0	0	20
III	100	5	0	0	0	0	0	0	23.255814
III	100	65	0	0	0	0	0	0	0
III	120	5	0	0	0	0	0	0	0
III	120	72	0	20	0	0	0	0	0
III	140	5	0	0	0	0	0	0	0
III	140	80	0	0	0	0	0	0	0
III	20	5	0	0	0	934.99781	0	0	0
III	25	22	0	0	0	0	0	0	0
III	25	5	0	0	0	0	0	0	40
III	30	25	0	0	0	0	0	0	0
III	30	5	0	0	0	692.59097	0	0	0
III	35	26	0	0	0	0	0	0	0
III	35	5	0	0	0	0	0	0	0
III	40	15	0	0	0	0	0	0	20
III	45	5	0	20	0	0	0	0	0

III	45	5	0	0	0	20	0	0	20
III	50	40	0	0	0	0	0	0	0
III	50	5	0	0	0	0	0	0	0
III	60	40	0	0	0	0	0	0	0
III	60	5	0	0	0	0	0	0	0
III	70	37	0	0	0	0	0	0	0
III	70	5	23.255814	0	0	0	0	0	0
III	80	40	0	0	0	0	0	0	0
III	80	5	0	0	0	0	0	0	44.444444
III	90	49	0	0	0	0	0	0	0
III	90	5	0	0	0	0	0	934.99781	0
IV	100	5	0	0	0	0	0	0	0
IV	100	50	0	0	0	0	0	0	0
IV	120	5	0	0	0	0	0	0	0
IV	120	67	0	0	0	0	0	0	0
IV	140	5	0	0	0	20	0	0	0
IV	140	60	0	0	0	0	0	0	0
IV	20	5	0	0	0	0	0	0	0
IV	25	5	0	0	0	0	0	0	0
IV	30	5	0	0	0	0	0	0	0
IV	35	5	0	0	0	0	0	0	0
IV	40	5	0	0	0	0	0	0	0
IV	45	5	0	0	0	0	0	267.14223	20
IV	50	11	0	0	0	0	0	0	0
IV	50	5	0	0	0	0	0	0	0
IV	60	5	0	0	0	0	0	0	0
IV	70	5	0	80	0	1869.9956	0	0	0
IV	80	5	0	0	0	0	0	0	0
IV	80	52	0	0	0	0	0	0	0
IV	90	5	0	0	0	0	0	20	0
IV	90	50	0	0	0	0	0	0	0
V	100	5	0	20	0	373.99913	0	0	20
V	120	5	0	0	0	373.99913	0	0	0
V	20	5	0	240	0	0	0	0	80
V	25	5	0	80	0	0	0	0	80
V	30	5	0	0	0	0	0	0	0
V	35	5	0	40	0	0	0	0	0
V	40	5	0	40	0	0	0	0	0
V	45	5	0	60	0	0	0	0	20
V	50	5	0	60	0	0	0	0	20
V	60	5	0	0	0	0	0	0	0
V	70	5	0	0	0	0	0	0	20
V	80	5	0	0	0	0	0	0	20
V	90	5	0	0	0	0	0	0	0

Cruzeiro	isóbata	Prof	OX SCX 6E	OX sp1 6E	OX SPP 6E	PO SP1 6F	PO PAL 6F	PC MIC 6L	PC ROS 6L
I	100	5	0	0	0	0	0	0	0
I	100	50	0	0	0	0	0	0	0
I	130	5	0	0	0	0	0	0	0
I	130	73	0	0	0	0	0	0	0
I	20	5	0	0	0	0	0	0	0
I	25	5	0	0	0	0	0	0	0
I	30	5	0	0	0	0	50	0	0
I	40	40	0	0	0	0	0	0	0
I	40	5	20	0	0	0	0	0	0
I	50	40	0	0	0	0	0	0	0
I	50	5	33.333333	0	0	0	0	0	0
I	60	5	0	0	0	0	0	0	0
I	60	50	0	0	0	40	0	0	0
I	70	5	0	0	0	0	0	25	0
I	70	50	0	0	0	0	0	0	0
I	80	50	0	0	0	0	0	0	0

I	90	50	0	0	0	0	0	0	0
II	100	42	0	0	0	0	0	0	20
II	100	5	0	0	0	0	51.282051	76.923077	76.923077
II	120	5	0	0	0	40	0	0	40
II	120	60	0	0	0	0	0	0	0
II	140	5	0	0	0	0	0	0	0
II	140	80	0	0	0	0	0	0	20
II	20	18	0	0	0	0	0	0	0
II	20	5	0	0	0	0	0	0	0
II	25	20	0	0	0	0	0	0	0
II	30	20	0	0	45.454545	0	0	0	0
II	30	5	0	0	0	0	0	0	0
II	35	30	0	0	0	0	0	0	0
II	35	5	0	0	0	0	0	0	0
II	40	25	40	0	0	0	0	0	20
II	40	5	0	40	0	0	0	0	0
II	45	40	0	0	114.28571	0	0	0	0
II	45	5	0	0	0	0	0	0	0
II	50	35	73.170732	0	0	0	24.390244	0	0
II	50	5	40	0	0	0	0	0	20
II	60	5	80	40	40	0	0	0	0
II	60	50	40	0	0	0	0	0	0
II	70	42	0	40	0	0	0	0	120
II	70	5	0	80	0	0	0	0	40
II	80	50	0	80	0	40	0	0	0
II	90	35	0	0	0	0	0	0	0
II	90	5	0	0	0	20	0	0	40
III	100	5	0	0	0	0	0	0	139.53488
III	100	65	0	0	0	0	0	0	0
III	120	5	0	0	1869.9956	0	0	40	60
III	120	72	0	0	0	0	0	0	0
III	140	5	0	0	0	0	0	0	40
III	140	80	0	0	0	0	0	0	0
III	20	5	0	0	0	0	0	0	40
III	25	22	0	0	0	0	0	0	0
III	25	5	0	0	0	0	0	40	0
III	30	25	0	0	0	0	0	0	0
III	30	5	0	0	0	0	0	0	0
III	35	26	0	0	0	20	0	0	20
III	35	5	0	0	0	0	0	0	0
III	40	15	0	0	0	0	0	0	0
III	45	5	0	0	934.99781	0	0	0	0
III	45	5	0	0	0	0	0	0	0
III	50	40	0	0	0	0	0	0	0
III	50	5	0	0	0	0	0	0	40
III	60	40	0	0	0	0	0	0	0
III	60	5	0	0	1869.9956	0	0	0	40
III	70	37	0	0	0	0	0	0	60
III	70	5	0	0	0	23.255814	0	0	23.255814
III	80	40	0	0	0	0	0	0	0
III	80	5	0	0	0	0	0	0	44.444444
III	90	49	0	0	0	0	40	0	0
III	90	5	0	0	0	0	0	0	0
IV	100	5	0	0	0	0	0	0	20
IV	100	50	0	0	0	0	0	0	0
IV	120	5	0	0	0	0	0	0	40
IV	120	67	0	0	0	0	0	0	20
IV	140	5	0	0	0	0	0	0	0
IV	140	60	0	0	0	0	0	0	0
IV	20	5	0	0	0	0	0	0	0
IV	25	5	40	0	0	0	0	0	0
IV	30	5	0	0	0	0	0	40	0
IV	35	5	0	0	0	0	0	0	0

IV	40	5	0	0	40	0	0	0	0
IV	45	5	0	0	0	0	0	20	20
IV	50	11	0	0	0	0	0	0	0
IV	50	5	0	0	0	0	0	0	0
IV	60	5	0	0	0	0	0	0	40
IV	70	5	0	0	0	0	0	0	0
IV	80	5	0	0	0	0	0	0	0
IV	80	52	0	0	0	0	0	0	0
IV	90	5	0	0	0	0	20	0	0
IV	90	50	0	0	0	0	0	0	0
V	100	5	0	0	373.99913	0	0	0	0
V	120	5	0	0	0	0	0	0	0
V	20	5	0	0	0	0	80	0	0
V	25	5	40	0	0	0	120	0	0
V	30	5	0	0	0	0	0	0	0
V	35	5	0	0	40	0	40	0	0
V	40	5	0	0	0	0	0	0	0
V	45	5	0	0	0	20	40	0	0
V	50	5	0	0	0	20	40	20	0
V	60	5	0	0	0	0	0	0	0
V	70	5	0	0	0	0	0	0	0
V	80	5	0	0	0	0	0	0	0
V	90	5	0	0	0	0	0	0	0

Cruzeiro	isóbata	Prof	PC SPP 6S	PC TRI 6L	PT BIP 6F	PT SP2 6D	PT SPP 6S	SV MIT 6D	SC SPP 6F
I	100	5	0	0	20	0	0	0	0
I	100	50	0	0	0	0	0	0	0
I	130	5	0	0	20	0	0	0	0
I	130	73	0	0	0	0	0	0	0
I	20	5	40	0	0	0	0	0	0
I	25	5	0	0	0	0	0	0	0
I	30	5	50	0	400	0	574.99901	0	424.99901
I	40	40	0	0	20	20	40	0	0
I	40	5	0	0	0	20	240	0	1869.9956
I	50	40	0	0	0	100	0	0	0
I	50	5	311.66594	33.333333	100	0	33.333333	0	0
I	60	5	0	0	40	0	0	0	0
I	60	50	0	0	40	20	0	0	60
I	70	5	0	25	50	50	50	0	0
I	70	50	25	0	0	0	0	0	0
I	80	50	0	0	0	0	0	0	0
I	90	50	0	0	0	0	0	0	0
II	100	42	0	0	20	0	20	0	2337.4945
II	100	5	0	153.84615	76.923077	0	25.641026	0	0
II	120	5	0	160	1869.9956	0	267.14223	0	0
II	120	60	0	180	0	0	60	0	0
II	140	5	0	0	0	0	623.33188	20	1246.6638
II	140	80	0	60	0	0	20	0	0
II	20	18	0	225.68913	451.37825	0	0	0	0
II	20	5	0	225.68913	0	0	1015.6011	0	0
II	25	20	0	0	169.26685	0	0	0	0
II	30	20	0	45.454545	0	0	1214.2829	45.454545	2428.5657
II	30	5	40	0	0	0	1535.9965	0	3071.993
II	35	30	0	228.57143	0	0	0	0	0
II	35	5	0	200	1038.8865	0	9349.9781	0	0
II	40	25	20	140	0	40	20	0	233.74945
II	40	5	0	120	0	0	80	0	3739.9913
II	45	40	0	114.28571	0	0	114.28571	0	0
II	45	5	0	0	0	0	0	0	0
II	50	35	24.390244	365.85366	0	0	0	0	1824.386
II	50	5	0	60	0	0	600.99869	0	373.99913
II	60	5	0	1120	0	0	703.33188	0	0

II	60	50	1246.6638	920	80	0	623.33188	0	0
II	70	42	0	720	0	0	240	0	0
II	70	5	0	1000	0	0	200	0	0
II	80	50	0	400	0	0	40	0	0
II	90	35	0	112.84456	0	0	0	0	0
II	90	5	20	480	0	0	40	0	1495.9965
III	100	5	93.023256	0	0	0	0	0	69.767442
III	100	65	0	0	0	0	0	0	200
III	120	5	5649.9869	40	0	0	0	0	1869.9956
III	120	72	0	0	0	0	0	0	0
III	140	5	40	0	0	0	0	0	1869.9956
III	140	80	20	0	0	0	0	0	20
III	20	5	1869.9956	40	80	0	974.99781	0	1869.9956
III	25	22	40	360	0	0	200	0	0
III	25	5	0	200	240	0	0	0	0
III	30	25	0	120	0	0	280	0	0
III	30	5	0	88.888889	266.66667	0	0	0	1385.1819
III	35	26	0	20	80	0	0	0	0
III	35	5	373.99913	80	80	0	0	0	747.99825
III	40	15	20	40	0	20	3156.6594	0	623.33188
III	45	5	0	20	0	0	954.99781	0	0
III	45	5	0	20	0	0	0	0	1869.9956
III	50	40	40	0	0	0	623.33188	0	623.33188
III	50	5	0	40	0	0	0	0	623.33188
III	60	40	0	40	0	0	974.99781	0	0
III	60	5	0	40	0	0	40	0	0
III	70	37	20	20	0	40	40	0	0
III	70	5	1087.2068	46.511628	23.255814	23.255814	0	0	0
III	80	40	20	20	0	0	0	0	0
III	80	5	0	0	0	0	0	0	0
III	90	49	0	120	0	0	0	0	0
III	90	5	0	0	0	40	0	0	1869.9956
IV	100	5	0	0	20	0	40	0	0
IV	100	50	0	0	0	0	20	0	1889.9956
IV	120	5	20	0	60	0	0	0	0
IV	120	67	20	0	0	0	0	0	0
IV	140	5	200	0	40	0	3759.9913	0	0
IV	140	60	1969.9956	20	0	0	0	0	20
IV	20	5	0	0	0	0	240	0	0
IV	25	5	0	0	200	0	80	0	1869.9956
IV	30	5	0	0	0	0	40	0	0
IV	35	5	0	40	0	0	0	0	0
IV	40	5	0	0	0	0	40	0	0
IV	45	5	0	20	0	0	0	0	0
IV	50	11	0	40	0	0	40	0	0
IV	50	5	0	20	0	20	0	0	0
IV	60	5	0	0	0	0	0	0	0
IV	70	5	40	0	0	0	0	0	0
IV	80	5	80	40	0	0	120	0	0
IV	80	52	20	0	0	0	0	0	0
IV	90	5	80	0	0	0	20	0	0
IV	90	50	0	20	0	0	0	0	0
V	100	5	0	0	40	0	373.99913	0	747.99825
V	120	5	0	0	0	0	0	0	747.99825
V	20	5	240	0	0	0	160	0	0
V	25	5	40	0	0	0	0	0	160
V	30	5	40	40	0	0	0	0	0
V	35	5	160	80	0	0	280	0	0
V	40	5	40	0	0	0	0	0	0
V	45	5	40	80	0	0	80	0	0
V	50	5	0	80	0	0	80	0	0
V	60	5	0	0	0	0	40	0	0
V	70	5	60	0	60	0	40	0	0

V	80	5	60	0	60	0	0	0	0
V	90	5	0	0	0	0	0	0	0

Cruzeiro	isóbata	Prof	YA SP1 1S	YA SP2 1R	DI FIB 8S	DI SPC 8S	OC OCT 8S	TC SPP 1R	CY ANN 1S
I	100	5	0	0	0	20	0	120	0
I	100	50	0	0	0	0	0	0	0
I	130	5	0	0	0	0	0	0	0
I	130	73	0	0	2099.9951	0	0	0	0
I	20	5	0	0	0	0	0	0	0
I	25	5	0	0	0	0	0	0	0
I	30	5	2600	33149.922	0	0	0	0	0
I	40	40	0	0	0	0	20	20	0
I	40	5	0	0	0	0	0	0	0
I	50	40	0	0	0	0	0	0	0
I	50	5	0	0	33.333333	0	0	0	0
I	60	5	0	0	0	0	0	20	0
I	60	50	3739.9913	300	20	0	0	0	0
I	70	5	50	35062.418	0	0	0	75	0
I	70	50	0	0	0	0	0	0	0
I	80	50	0	0	0	0	0	0	0
I	90	50	0	0	0	0	0	0	0
II	100	42	20	0	0	0	0	20	0
II	100	5	0	44352.46	0	0	0	51.282051	0
II	120	5	12822.827	0	0	0	0	20	0
II	120	60	0	480	0	0	0	0	0
II	140	5	0	260	0	0	0	0	0
II	140	80	4207.4902	100	0	0	0	0	0
II	20	18	0	0	0	0	0	0	0
II	20	5	0	0	112.84456	0	0	0	0
II	25	20	0	0	169.26685	0	0	0	13879.881
II	30	20	0	45.454545	90.909091	0	0	0	0
II	30	5	0	0	0	0	0	0	0
II	35	30	0	0	534.28446	0	0	0	1714.2857
II	35	5	0	0	66.666667	0	0	0	0
II	40	25	3739.9913	0	0	0	0	260	80
II	40	5	0	0	40	80	0	0	0
II	45	40	0	0	0	0	0	0	0
II	45	5	0	0	0	0	0	1335.7112	0
II	50	35	456.09649	7753.6404	0	0	0	0	0
II	50	5	1440	0	0	0	0	60	0
II	60	5	0	0	40	0	0	200	0
II	60	50	0	0	0	0	0	0	0
II	70	42	0	0	0	0	0	320	0
II	70	5	0	0	0	0	0	1120	0
II	80	50	61709.856	0	40	0	0	0	0
II	90	35	0	0	0	0	0	0	0
II	90	5	0	0	0	0	0	560	0
III	100	5	0	0	0	0	0	0	0
III	100	65	0	0	0	0	0	0	0
III	120	5	7479.9825	60	0	0	0	0	0
III	120	72	0	0	0	0	0	0	0
III	140	5	0	0	0	0	0	40	0
III	140	80	0	0	0	0	0	20	0
III	20	5	0	0	3360	0	0	200	0
III	25	22	0	0	40	0	0	0	0
III	25	5	0	0	0	0	0	0	0
III	30	25	0	0	640	0	0	0	0
III	30	5	0	0	44.444444	0	0	0	0
III	35	26	0	0	700	0	0	0	0
III	35	5	0	0	0	0	0	0	0
III	40	15	0	0	60	0	0	0	0
III	45	5	40	0	180	0	0	20	0

III	45	5	0	0	0	0	0	20	0
III	50	40	0	0	80	0	0	0	0
III	50	5	0	0	0	0	0	0	0
III	60	40	80	0	0	0	0	0	0
III	60	5	0	0	0	0	0	0	0
III	70	37	0	0	0	0	0	40	0
III	70	5	0	0	0	0	0	0	0
III	80	40	0	0	40	0	0	0	0
III	80	5	0	0	0	0	0	44.444444	0
III	90	49	0	0	0	0	0	0	0
III	90	5	0	0	0	0	0	240	0
IV	100	5	0	0	0	0	0	0	0
IV	100	50	20	0	0	0	0	20	0
IV	120	5	0	0	0	0	0	120	0
IV	120	67	0	0	0	0	0	0	0
IV	140	5	0	0	0	0	0	240	0
IV	140	60	0	0	40	0	0	80	0
IV	20	5	0	0	0	0	0	0	0
IV	25	5	0	0	160	3739.9913	0	0	0
IV	30	5	0	0	80	0	0	0	0
IV	35	5	0	0	160	0	0	80	0
IV	40	5	0	0	40	0	0	0	0
IV	45	5	0	0	40	0	0	0	0
IV	50	11	0	0	100	0	0	0	0
IV	50	5	0	0	20	0	0	0	0
IV	60	5	0	0	0	0	0	40	0
IV	70	5	0	0	0	0	0	0	0
IV	80	5	0	0	0	0	0	0	0
IV	80	52	0	0	20	0	0	0	0
IV	90	5	0	0	0	0	0	40	0
IV	90	50	0	0	0	0	0	0	0
V	100	5	0	0	0	0	0	0	0
V	120	5	0	0	0	0	0	0	0
V	20	5	0	0	80	0	0	0	0
V	25	5	0	0	0	0	0	360	0
V	30	5	0	0	0	0	0	0	0
V	35	5	0	0	0	0	0	0	0
V	40	5	0	0	40	0	0	600	0
V	45	5	0	0	40	0	0	600	0
V	50	5	0	0	40	0	0	0	0
V	60	5	0	0	0	0	0	0	0
V	70	5	0	0	0	0	0	0	0
V	80	5	0	0	0	0	0	0	0
V	90	5	0	0	0	0	0	0	0

7.1.2 Biomassa

Cruzeiro	isóbata	Prof	AP SPP 6L	AM SPP 7I	AM FOR 9	AS GLA 7P	AT FLA 7R	AT SP1 7R	AU GRN 7R
I	100	5	0	0.2368251	0	0	0	0	1.297175
I	100	50	0	0	0	0	0	0	0.0459629
I	130	5	0	0	0	0	0	0.3694198	0.3983451
I	130	73	0	0	0	0	0	0	0.0056744
I	20	5	0	0	0	0	0	0	3.3093283
I	25	5	0	0	0	0	0	0	0
I	30	5	0	0.6078947	0	0	0.9235494	0	0
I	40	40	0	0.3410957	0	0	0	0	0.5311268
I	40	5	0	0	0	0	0.1847099	0	0
I	50	40	0	0.0253289	0	0	0.4617747	0	0

I	50	5	0.0427679	0.0675439	0	0	0	0	0
I	60	5	0	0	0	0	0.3694198	0	0.7915832
I	60	50	0	0	0	0	0	0	0
I	70	5	0	0	0	0	0	0	0.1532096
I	70	50	0	0.0253289	0	0	0	0	0.1915121
I	80	50	0	0.0202632	0	0	0.1847099	0	2.175577
I	90	50	0	0	0	0	0	0	0
II	100	42	0	0	0	0	0	0	0
II	100	5	0	0.0314573	0	0	0	0	1.5388293
II	120	5	0	0.036805	0	0	0	0	1.046196
II	120	60	0	0	0	0	0	0	0
II	140	5	0	0.0122683	0	0	0	0	0.5352631
II	140	80	0	0	0	0	0	0	0.9488754
II	20	18	0	0	0	0	0	0	0
II	20	5	0	0	0	0	0	0	0
II	25	20	0	0	0	0	0	0	0
II	30	20	0	0	0	0	0	0	0.8768329
II	30	5	0	0	0	0	0	0	0
II	35	30	0	3.2773899	0	0	0.4027719	0	0.3475734
II	35	5	0	0	0	0	0	0	0.3514353
II	40	25	0	0.2867716	0	0	0	0	0.6244736
II	40	5	0	0	0	0	0	0	0
II	45	40	0	0.0350524	0	0	0	0	5.6654468
II	45	5	0	0	0	0	0	0	30.873137
II	50	35	0	0.2210539	0	0	0	0	1.1274943
II	50	5	0	0	0	0	0	0	1.5409088
II	60	5	0	0	0	0	0	0	2.7574158
II	60	50	1.1470865	0	0	0	0	0	1.1516266
II	70	42	0	0	0	0	0	0	0
II	70	5	0	0	0	0	0	0	2.1086121
II	80	50	0	0.3823622	0	0	0	0	0.3244019
II	90	35	0	0	0	0	0	0	1.6930731
II	90	5	0	0	0	0	0	0	0
III	100	5	0	0	0	0	0	0	0
III	100	65	0	0.1655137	0	0	0	0	0
III	120	5	0	0.8317043	1.5475491	0	0	0	0.277393
III	120	72	0	0	0	0	0	0	0.1455176
III	140	5	0	0	0	0	0	0	0.1591599
III	140	80	0	0	0	0	0	0	0
III	20	5	0	0	0	0.0847544	0	0	0.3365095
III	25	22	0.6625172	0	0	0.0566288	0	0	0.1637073
III	25	5	0	0.0331027	0	0	0	0	0.5911653
III	30	25	0	0	0	0.0592223	0	0	0.854916
III	30	5	0	0	0	0.041854	0	0	0.8993797
III	35	26	0	0.0662055	0	0	0	0	1.614336
III	35	5	0.1104195	0	0	0	0	0	0.45929
III	40	15	0	0	0	0	0	0	0
III	45	5	0	0.0165514	0	0	0	0	0.545691
III	45	5	0	0	0	0	0	0	0.3592466
III	50	40	0.2208391	0	0	0	0	0.3694198	0.4092683
III	50	5	0	0	0	0	0	0	3.2741463
III	60	40	0	0	0	0	0	0	0.5365962
III	60	5	0	0.0331027	0	0	0	0	0.2364661
III	70	37	0	0.0165514	0	0	0	0	0.0773062
III	70	5	0	0	0	0	0	0	0.3701393
III	80	40	0	0.0165514	0	0	0	0	0.427458
III	80	5	0	0.0367808	0	0	0	0	0
III	90	49	0	0	0	0	0	0	1.8644444
III	90	5	0	0	0	0	0	0	0
IV	100	5	0	0	0	0	0	0	0
IV	100	50	0	0.0134522	0	0	0	0	0
IV	120	5	0	0	0	0	0	0	0
IV	120	67	0	0	0	0	0	0	0

IV	140	5	0	0	0	0	0	0	0
IV	140	60	0	0	0	0	0	0	0
IV	20	5	0	0	0	0.0738793	0.1294231	0	0
IV	25	5	0	0	0	0.3324568	0	0	0
IV	30	5	0	0	0	0.5171551	0	0	0
IV	35	5	0	0	0	0.0184698	0	0	0.009874
IV	40	5	0	0	0	0.1388113	0	0	0
IV	45	5	0	0	0	0	0	0	0
IV	50	11	0	0	0	0	0	0	0.0197479
IV	50	5	0	0	0	0	0	0	0
IV	60	5	0	0	0	0	0	0	0.1234247
IV	70	5	0	0	0	0	0	0	0
IV	80	5	0	0	0	0	0	0	0
IV	80	52	0	0.0269045	0	0	0	0	0
IV	90	5	0	0	0	0	0	0	0
IV	90	50	0	0	0	0	0	0	0
V	100	5	0	0	0	0	0	0.035462	0.0147801
V	120	5	0	0	0	0	0	0	0
V	20	5	0	0	0	0	0	0	0
V	25	5	0	0	0	0	0	0	0
V	30	5	0	0	0	0	0	0	0
V	35	5	0	0	0	0	0	0	0
V	40	5	0	0	0	0	0	0	0
V	45	5	0	0	0	0	0	0	0
V	50	5	0	0.0347156	0	0	0	0	0
V	60	5	0	0	0	0	0	0	0
V	70	5	0	0	0	0	0	0	0
V	80	5	0	0	0	0	0	0	0
V	90	5	0	0	0	0	0	0	0

Cruzeiro	isóbata	Prof	BA PAX 7T	BC SPP 7R	BD SPP 7U	CA LON 7U	CE PEL 7R	CH MES 7U	CH SP1 7U
I	100	5	0	0	0.02746	0	0.4294609	0	0
I	100	50	0	0	0	0	0	0.0249477	0
I	130	5	0	8.5593502	0.02746	0	0	0	0
I	130	73	0	0	0	0	0	0	0.0071036
I	20	5	0	0.3661763	0	0	0	0	0.0191797
I	25	5	0	0.2288602	0	0	0	0	0.0314037
I	30	5	0	0.1144301	0	0	0	0	0.0079915
I	40	40	0	0.0915441	0.2288677	0	0	0	0.0031966
I	40	5	0	0.3661763	0	0	0.1878892	0	0.0031966
I	50	40	0	0.1144301	0.1144301	0	0.9394458	0	0.0479491
I	50	5	0	0.2288602	0	0	0	0.0831591	0.0532768
I	60	5	0	0	0	0	0	0	0
I	60	50	0	0	0	0	0	0	0
I	70	5	0	0	0	0	0	0	0
I	70	50	0	0	0	0	0.1679625	0	0
I	80	50	0	0	0	0	0.0525343	0	0
I	90	50	0	0	0	0	0	0	0
II	100	42	0	0	0	0	0	0	0
II	100	5	0	0	0	0	0	0	0
II	120	5	0	0	0	0	0	0	0
II	120	60	0	0	0	0	0	0	0
II	140	5	0	0	0	0	0	0	0
II	140	80	0	0	0.0457735	0	0.1211756	0	0
II	20	18	0	0	0	0	0	0	0
II	20	5	0	0	0	0	0	0	0.0363043
II	25	20	0	0	0	0	0	0	0.0544564
II	30	20	0	0	0	0	0	0	0
II	30	5	0	0	0	0	0	0	0
II	35	30	0	0	0	0	0	0	0
II	35	5	0	0.173958	0	0	0	0	0
II	40	25	0	0	0.1373206	0	0.4462523	0	0

II	40	5	0	0	0	0	0	0	0
II	45	40	0	0	0	0	0	0	0
II	45	5	0	0	0	0	0	0	0
II	50	35	0	0	0	0	0	0	0
II	50	5	0	0	0.8559632	0	0	0	0
II	60	5	0	0	0	0	0.2746168	0	0
II	60	50	0	1.1481225	0	0	0.4119252	0.8351288	0
II	70	42	0	4.2271784	0	0	0	3.5682776	0
II	70	5	0	0	0	0	1.7850093	0	14.197156
II	80	50	0	0	0	0	0	0	0
II	90	35	0	0	0	0	0	0	0
II	90	5	0	0	0	0	0	0	0
III	100	5	0	0	0	0	0	0	0
III	100	65	0	0	7.6711041	1.7498185	0	0	0
III	120	5	0	0	0	0	0	0	0
III	120	72	0	0	0	0	0	0	0
III	140	5	0	0	0	0	0	0	0
III	140	80	0	0	0	0	0	0	0
III	20	5	0	0	0	1.0498911	0	0	0
III	25	22	0	0	0	0	0.2625902	0	0
III	25	5	0	0	0	0	0	0	0
III	30	25	0	0	0	16.710728	0.1575541	0	0
III	30	5	0	0	0	1.1665457	1.3117325	0	0
III	35	26	0	0	0	0	0	0	0
III	35	5	0	0	0.7671104	0	0	0	0
III	40	15	0	0	0	0	0	0	0
III	45	5	0	0	0	0	0	0	0
III	45	5	0	0	0.1278517	0.1749819	0	0	0
III	50	40	0	0	0	0	0	0	0
III	50	5	0	0	0	0	0	0	0
III	60	40	0	0	0	0	0	0	0
III	60	5	0	0	0	0	0	0	0
III	70	37	0	0	0	0	0	0	0
III	70	5	0	0	0	0	0	0	0
III	80	40	0	0	0	0	0	0	0
III	80	5	0	0	0	0	0	0	0
III	90	49	0	0	0	0	0	0	0
III	90	5	0	0	0	0	0	0	0
IV	100	5	0	0	0	0	0	0	0
IV	100	50	0	0	0	0	0	0	0
IV	120	5	0	0	0	0	0	0	0
IV	120	67	0	0	0	0	0	0	0
IV	140	5	0	0	0	0	0	0	0
IV	140	60	0	0	0	0	0	0	0
IV	20	5	0.2481996	0	0	0	0	0	0
IV	25	5	0	0	0	0	0	0	0
IV	30	5	0	0	0	0	0	0	0
IV	35	5	0	0	0	0	0	0	0
IV	40	5	0	0	0	0	0	0	0
IV	45	5	0	0	0	0	0	0	0
IV	50	11	0	0	0	0	0	0	0
IV	50	5	0	0	0	0	0	0	0
IV	60	5	0	0	0	0	0	0	0
IV	70	5	0	0	0	0	0	0	0
IV	80	5	0	0	0	0	0	0	0
IV	80	52	0	0	0.1053267	0	0	0	0
IV	90	5	0	0	0	0	0	0	0
IV	90	50	0	0	0	0	0	0	0
V	100	5	0	0	0	0	0	0	0
V	120	5	0	0	0	0	0	0	0
V	20	5	0	0	0	0	0	0	0
V	25	5	0	0	0	0	0	0	0
V	30	5	0	0	0	0	0	0	0

V	35	5	0	0	0	0	0	0	0
V	40	5	0	0	0	0	0	0	0
V	45	5	0	0	0	0	0	0	0
V	50	5	0	0	0	0	0	0	0
V	60	5	0	0	0	0	0	0	0
V	70	5	0	0	0	0	0	0	0
V	80	5	0	0	0	0	0	0	0
V	90	5	0	0	0	0	0	0	0

Cruzeiro	isóbata	Prof	CH SPP 7U	CH COP 7U	CH DYD 7U	CH EIB 7U	CH LOR 7U	CH PER 7U	CH PER 7U
I	100	5	0	0	0	0	0	0	0
I	100	50	0	0	0	0	0	0	0
I	130	5	0.0147932	0	0	0	0	0	0
I	130	73	0	0	0.0502734	0	0	0	0
I	20	5	0	0	0	0	0	0	0.0332632
I	25	5	0	0	0	0	0	0.2494737	0
I	30	5	0	0.0444884	0	0	0	0	0.0831579
I	40	40	0	0	0	0	0	0.0166316	0
I	40	5	0	0.0020936	0	0	0	0	0.0831579
I	50	40	0	0.0052339	0.1131151	0	0	0	0.1247369
I	50	5	0	0	0	0	0	0.0831579	0
I	60	5	0	0	0	0	0	0	0
I	60	50	0	0	0	0	0	0	0
I	70	5	0	0	0	0	0	0	0
I	70	50	0	0	0	0	0	0	0
I	80	50	0	0	0	0	0	0	0
I	90	50	0	0	0	0	0	0	0
II	100	42	0	0	0	0	0	0	0
II	100	5	0	0	0.4609985	0	0	0.1052678	0
II	120	5	0	0	0	0	0	0	0
II	120	60	0	0	0	0	0	0	0
II	140	5	0	0	0	0	0	0	0
II	140	80	0	0	0	0	0	0	0
II	20	18	0	0	0	0	0	0	0
II	20	5	0	0	0	0	0	0	0
II	25	20	0	0	0	0	0	0	0
II	30	20	0	0	0	0	0	0	0
II	30	5	0	0	0	0	0	0	0
II	35	30	0	0	0	0	0	0	0
II	35	5	0	0	0	0.3952706	0	0	0
II	40	25	0	0	0.0603431	0	0	0.0205272	0
II	40	5	0	0	0	0	0	0	0
II	45	40	0	0	0	0	0	0	0
II	45	5	0	0	0.1724087	0	0	0	0
II	50	35	0	0	0	0	0	0	0
II	50	5	0	0	0.1448233	0	0.0026486	0.0205272	0
II	60	5	0	0	0	0	0	0	0.0410544
II	60	50	0	0	0.013846	4.506085	0	0	0.0410544
II	70	42	0	0.0042623	1.7429274	2.2530425	0	0	0
II	70	5	0	0	0	0	0	0	0
II	80	50	0	0	0.041538	0	0	0	0
II	90	35	0	0	0	0	0	0	0
II	90	5	0	0	0	0	0	0.0410544	0
III	100	5	0	0	0	0	0	0	0
III	100	65	0	0	0	0	0	0	0
III	120	5	0	0	0	0	0	0	0
III	120	72	0	0	0	0	0	0	0
III	140	5	0	0	0	0	0	0	0
III	140	80	0	0	0	0	0	0	0
III	20	5	0	0.3745238	0	0	0	0	0
III	25	22	0	0.0247243	0	0	0	0.0205093	0
III	25	5	0	0.3317274	0	0	0	0	0

III	30	25	0	0.1243978	0.4943866	0	0	0.0205093	0
III	30	5	0	0.2303663	0	0	0	0	0
III	35	26	0	0.0039914	0	0	0	0	0
III	35	5	0	0	0.0659182	0	0	0	0
III	40	15	0	0	0	0	0	0	0
III	45	5	0	0	0	0	0	0.0307639	0
III	45	5	0	0	0	0	0	0	0
III	50	40	0	0	0	0	0	0.0205093	0
III	50	5	0	0	0	0	0	0	0
III	60	40	0	0	0	0	0	0	0
III	60	5	0	0	0	0	0	0	0
III	70	37	0	0	0	0	0	0	0
III	70	5	0	0	0	0	0	0	0
III	80	40	0	0	0	0	0	0	0
III	80	5	0	0	0	0	0	0	0
III	90	49	0	0	0	0	0	0	0
III	90	5	0	0	0	0	0	0	0
IV	100	5	0	0	0	0	0	0	0
IV	100	50	0	0	0	0	0	0	0
IV	120	5	0	0	0	0	0	0	0
IV	120	67	0	0	0	0	0	0	0
IV	140	5	0	0	0	0	0	0	0
IV	140	60	0	0	0	0	0	0	0
IV	20	5	0	0	0	0	0	0	0
IV	25	5	0	0	0	0	0	0	0
IV	30	5	0	0	0	0	0	0	0
IV	35	5	0	0	0	0	0	0	0
IV	40	5	0	0	0	0	0	0	0
IV	45	5	0	0	0.3476723	0	0	0	0
IV	50	11	0	0	0	0	0	0	0
IV	50	5	0	0	0.9501009	0	0	0	0
IV	60	5	0	0	0	0	0	0	0
IV	70	5	0	0	0	0	0	0	0
IV	80	5	0	0	0	0.2257546	0	0	0
IV	80	52	0	0	0	0	0	0	0
IV	90	5	0	0	0	0.2257546	0	0	0
IV	90	50	0	0	0	0	0	0	0
V	100	5	0	0	0	0	0	0	0
V	120	5	0	0	0	0	0	0	0
V	20	5	0	0	0	0	0	0	0
V	25	5	0	0	0	0	0	0	0
V	30	5	0	0	0	0	0	0	0
V	35	5	0	0	0	0	0	0	0
V	40	5	0	0	0	0	0	0	0
V	45	5	0	0	0	0	0	0	0
V	50	5	0	0	0	0	0	0	0
V	60	5	0	0	0	0	0	0	0
V	70	5	0	0	0	0	0	0	0
V	80	5	0	0	0	0	0	0	0
V	90	5	0	0	0	0	0	0	0

Cruzeiro	isóbata	Prof	CH SP2 7U	CH SPP 7U	CL FRA 7U	CN SPP 7R	CN S10 7R	CN S12 7R	CN S13 7R
I	100	5	0	0	0	0.0914215	0	0	0
I	100	50	0	0	0	0.1140455	0	0	0
I	130	5	0	0	0	0	0	0	0
I	130	73	0	0.0069023	0	0	0	0	0
I	20	5	0	0	0	0	0	0	0
I	25	5	0	0.0128098	0	28.074265	0	0.5436706	0
I	30	5	0	0	0	0.1735422	0	0	0
I	40	40	0	0.0098621	0	0.1598473	0	0	0
I	40	5	0	0	0	0.0310013	0	0	0
I	50	40	0	0.0384295	0	0.222056	0	0	0

I	50	5	0	0	0	0.258344	0	0	0
I	60	5	0	0	0	0	0	0	0
I	60	50	0	0	0	0	0	0	0
I	70	5	0	0	0	0	0	0	0
I	70	50	0	0	0	0	0	0	0
I	80	50	0	0	0	0.2184835	0	0	0
I	90	50	0	0	0	0.0854988	0	0	0
II	100	42	0	0.0099934	0	0.0248007	0	0	0
II	100	5	0	0.2622251	0	0	0	0	0
II	120	5	0	0.006614	1.2377654	0.0789556	0	0	0
II	120	60	0	0.0012492	0	0.0265375	0	0	0
II	140	5	0	0	0.1856648	0	0	0	0
II	140	80	0	0	0.1237765	0.0068084	0	0	0
II	20	18	0	0	0	2.2925252	0	0	0
II	20	5	0	0	0	0	0	0	0
II	25	20	0	0	0	0.879218	0	0	0
II	30	20	0	0	0	0.1149436	0	0	0
II	30	5	0	0.0124917	0.3713296	0	0	0	0
II	35	30	0	0	0	0.4088155	0	0	0
II	35	5	0	0	1.0314712	0	0	0	0
II	40	25	0	0.0165908	0.3713296	0.0124003	0.0747866	0	0
II	40	5	0	0	0.7426593	0.0759242	0	0	0
II	45	40	0	0.0178453	0	0	0	0	0
II	45	5	0	0	0	0	0	0	0
II	50	35	0	0	0.603788	0.0985453	0	0	0
II	50	5	0	0.0132727	0.3713296	0	0	0	0
II	60	5	0.0109412	0	0	0	0	0	0
II	60	50	0	0	0	0	0	0	0
II	70	42	0.279	0.1570069	0	0	0	0	0
II	70	5	0.0601765	0	0.3713296	1.9960787	0	0	0
II	80	50	0.0820588	0.2433324	0	0.4398196	0	0	0
II	90	35	0	0	0	0	0	0	0
II	90	5	0	0.0122576	0	0.0170596	0	0	0
III	100	5	0	0	0	0	0	0	0
III	100	65	0	0	0	1.5382431	0	0	0
III	120	5	0	0	0	0	0	0	0
III	120	72	0	0	0	0.0265447	0	0	0
III	140	5	0	0	0	0.0265447	0	0	0
III	140	80	0	0	0	0.1083077	0	0	0
III	20	5	0	0.1997291	0.3641988	0.5629912	0	0	1.590828
III	25	22	0	0.2884975	0	0.050042	0	0	0.5184451
III	25	5	0	0	0	0.3515652	0	0	0.8640752
III	30	25	0	1.0652216	0.3641988	0.0530895	0	0	0.3032763
III	30	5	0	0.0493158	0	0.0589883	0	0	0
III	35	26	0	0	0	0	0	0	0
III	35	5	0	0.0190117	0	0.2812522	0	0	0
III	40	15	0	0.1367901	0	0.1304608	0	0	0
III	45	5	0	0	0	0.2008389	0	0	0
III	45	5	0	0	0.0606998	0.4687537	0	0	0
III	50	40	0	0	0	0.2609216	0	0	0
III	50	5	0	0	0	0.1171884	0	0	0
III	60	40	0	0	0	0.1702779	0	0	0
III	60	5	0	0.0087576	0	0	0	0	0
III	70	37	0	0	0	0.0265447	0	0	0
III	70	5	0	0	0.2117435	0.3422602	0	0	0
III	80	40	0	0	0	0	0	0	0
III	80	5	0	0	0	0	0	0	0
III	90	49	0	0	0	0.0100481	0	0	0
III	90	5	0	0	0	0	0	0	0
IV	100	5	0	0	0	0	0	0	0
IV	100	50	0	0	0	0	0	0	0
IV	120	5	0	0	0	0.0976794	0	0	0
IV	120	67	0	0	0	0	0	0	0

IV	140	5	0	0	0	0	0	0	0
IV	140	60	0	0	0	0.0325598	0	0	0
IV	20	5	0	0.8343275	0	0.1302392	0	0	0
IV	25	5	0	0	0	0.0651196	0	0	0
IV	30	5	0	0.3586846	0	0.2038998	0	0	0
IV	35	5	0	0	0	0.3101202	0	0	0.0851315
IV	40	5	0	0	0	0	0	0	0
IV	45	5	0	0	0	0.0745943	0	0	0
IV	50	11	0	0	0	0.1139593	0	0	0
IV	50	5	0	0.0030602	0	0.070164	0	0	0
IV	60	5	0	0	0.3425776	0.3101202	0	0	0
IV	70	5	0	0	0.3425776	0	0	0	0
IV	80	5	0	0	0	0	0	0	0
IV	80	52	0	0	0	0.1139593	0	0	0
IV	90	5	0	0	0.1712888	0	0	0	0
IV	90	50	0	0	0	0.0162799	0	0	0
V	100	5	0	0	0	0.0624691	0	0	0
V	120	5	0	0	0	0	0	0	0
V	20	5	0	0	0	0.2862392	0	0	0
V	25	5	0	0.1562047	0	0.0591494	0	0	0
V	30	5	0	0.3271751	0	0.0591494	0	0	0
V	35	5	0	0	0.5352943	0.1125248	0	0	0
V	40	5	0	0	0	0.1774482	0	0	0
V	45	5	0	0	0	0.1774482	0	0	0
V	50	5	0	0	0	0.0356323	0	0	0
V	60	5	0	0	0	0	0	0	0
V	70	5	0	0	0	0.0591494	0	0	0
V	80	5	0	0	0	0.0591494	0	0	0
V	90	5	0	0	0	0	0	0	0

Cruzeiro	isóbata	Prof	CN S14 7R	CN S16 7R	CN SP1 7R	CN SP3 7R	CN sp8 7R	CN SP9 7R	CC SPP 7U
I	100	5	0	0	0.2067452	0	0	0	0
I	100	50	0	0	0	0	0	0	0
I	130	5	0	0	0	0	0	0	0
I	130	73	0	0	0	0	0	0	0
I	20	5	0	0	0	0	0.2279038	0	0
I	25	5	0	0	0	0	0	0	0
I	30	5	0	0	0	1.0781676	0	0	0
I	40	40	0	0	0.0477616	0	0	0	0
I	40	5	0	0	0	0.1014748	0	0	0
I	50	40	0	0	0	0	0	0	0
I	50	5	0	0	0	1.1838731	0	0	0
I	60	5	0	0	0.0300721	0	0	0	0
I	60	50	0	0	0	0	0	0	0
I	70	5	0	0	0	0	0	0	0
I	70	50	0	0	0.0199007	0	0	0	0
I	80	50	0	0	0.0247653	0	0	0	0
I	90	50	0	0	0	0	0	0	0
II	100	42	0	0	0	0	0	0	0
II	100	5	0	0	0.0272772	0	0	0	0
II	120	5	0	0	0.0116052	0	0	0	0
II	120	60	0	0	0	0	0	0	0
II	140	5	0	0	0.0038684	0	0	0	0
II	140	80	0	0	0.029013	0	0	0	0
II	20	18	0	0	0	0	0	0	0
II	20	5	0	0	0	0	0	0	0
II	25	20	0	0	0	0	0	0	0
II	30	20	0	0	0	0	0	0	0
II	30	5	0	0	0	0	0	0	0
II	35	30	0	0	0	0	0	0	1.2025356
II	35	5	0	0	0	0	0	0	0
II	40	25	0	0	0.0502893	0	0	0.5689735	0

II	40	5	0	0	0	0	0	0	0
II	45	40	0	0	0.0718418	0	0	0	0
II	45	5	0	0	0	0	0	0	0
II	50	35	0	0	0.0070764	0	0	0	0.0182987
II	50	5	0	0	0.0831707	0	0	0	0
II	60	5	0	0	0	0	0	0	0
II	60	50	0	0	0	0	0	0	0
II	70	42	0	0	0	0	0	0	0
II	70	5	0	0	0	0	0	0	0
II	80	50	0	0	0	0	0	0	0
II	90	35	0	0	0.152785	0	0	0	0
II	90	5	0	0	0.0058026	0	0	0	0
III	100	5	0	0	0	0	0	0	0
III	100	65	0	0	0	0	0	0	0
III	120	5	0	0	0.0047581	0	0	0	0
III	120	72	0	0	0	0	0	0	0
III	140	5	0	0	0.0079302	0	0	0	0
III	140	80	0	0	0	0	0	0	0
III	20	5	0	0	0.0412369	0	0	0	0
III	25	22	0	0	0	0.7139652	0	0	0
III	25	5	0	0	0.0126883	1.3351119	0	0	0
III	30	25	0	0	0.0348927	0.2570275	0	0	0
III	30	5	0	0	0.0105736	0	0	0	0
III	35	26	0	0	0.0174464	0.142793	0	0	0
III	35	5	0	0	0.0111022	0	0	0	0
III	40	15	0	0	0	0.0713965	0	0	0
III	45	5	0	0	0.0348927	0.2570275	0	0	0
III	45	5	1.5465175	0	0.0231306	0	0	0	0
III	50	40	0	0	0	0.1142344	0	0	0
III	50	5	0	0	0.0507531	0.0285586	0	0	0
III	60	40	0	0	0	0	0	0	0
III	60	5	0	0	0.0126883	0	0	0	0
III	70	37	0	0	0.0047581	0	0	0	0
III	70	5	0	0	0	0	0	0	0
III	80	40	0	0	0	0	0	0	0
III	80	5	0	0	0	0	0	0	0
III	90	49	0	0	0.0539251	0	0	0	0
III	90	5	0	0	0	0	0	0	0
IV	100	5	0	0	0	0	0	0	0
IV	100	50	0	0	0	0.0089746	0	0	0
IV	120	5	0	0	0	0	0	0	0
IV	120	67	0	0	0	0	0	0	0
IV	140	5	0	0	0	0	0	0	0
IV	140	60	0	0	0	0	0	0	0
IV	20	5	0	0	0	0.143593	0	0	0
IV	25	5	0	0	0	0	0	0	0
IV	30	5	0	0	0	0.1974403	0	0	0
IV	35	5	0	0	0	0.0179491	0	0	0
IV	40	5	0	0	0	0	0	0	0
IV	45	5	0	0	0	0.0179491	0	0	0
IV	50	11	0	0	0	0.0089746	0	0	0
IV	50	5	0	0	0	0	0	0	0
IV	60	5	0	0	0	0	0	0	0
IV	70	5	0	0	0	0	0	0	0
IV	80	5	0	0	0	0	0	0	0
IV	80	52	0	0	0	0	0	0	0
IV	90	5	0	0	0	0	0	0	0
IV	90	50	0	0	0	0	0	0	0
V	100	5	0	0	0	0	0	0	0
V	120	5	0	0	0	0	0	0	0
V	20	5	0	0	0	0	0	0	0
V	25	5	0	0	0	0	0	0	0
V	30	5	0	0.0788368	0.0191204	0	0	0	0

V	35	5	0	0	0	0.0191204	0	0	0
V	40	5	0	0.0161717	0	0.0191204	0	0	0
V	45	5	0	0.0161717	0	0.0191204	0	0	0
V	50	5	0	0	0	0	0	0	0
V	60	5	0	0	0	0	0	0	0
V	70	5	0	0	0	0	0	0	0
V	80	5	0	0	0	0	0	0	0
V	90	5	0	0	0	0	0	0	0

Cruzeiro	isóbata	Prof	CO GRA 7R	CO SP1 7R	CO SP2 7R	CO SP3 7R	CO SP4 7R	CO JON 7R	CO SP7 7R
I	100	5	0	0	0	0	0	0	0
I	100	50	0	0	0	0	0	0	0
I	130	5	0	0	0	0	0	0	0
I	130	73	0	1.1921479	0	0	0	0	0.4025645
I	20	5	0	0	0	0	0	0	0
I	25	5	0	0	0	0	0	0	0
I	30	5	1.3632219	0	0	0	0	1.244144	0
I	40	40	0	3.7135643	0	0	0	0	0
I	40	5	0	0	0	0	0	0	0
I	50	40	0	0	0	0	0	0	0
I	50	5	0	0	1.7882219	0	0	0	0
I	60	5	0	0	3.2187994	0	0	0	0
I	60	50	0	0	1.0729331	0	0	0	0
I	70	5	0	0	0	0	0	0	0
I	70	50	0	0.9283911	0	0	0	0	0
I	80	50	0	0	0	0	0	0	0
I	90	50	0	0.7427129	0	0	0	0	0
II	100	42	0	0	0	0	0	1.5621482	0
II	100	5	0	0	0	0	0	0	0
II	120	5	0	0	0	0	0	0	0
II	120	60	0	0	0	0	0	0	0
II	140	5	0	0	0	0	0	0	0
II	140	80	0	0	0	0	0	0	0
II	20	18	0	64.913066	81.867281	0	0	0	0
II	20	5	0	4.6366476	0	0	0	0	0
II	25	20	0	6.9549714	0	0	0	0	0
II	30	20	0	0	0	0	0	0	0
II	30	5	0	0	0	0	0	0	0
II	35	30	0	2.3479314	0	0	0	0	0
II	35	5	0	8.2177598	0	0	0	0	0
II	40	25	0	0	8.7058458	0	0	0	0
II	40	5	0	0	81.254561	0	0	0	0
II	45	40	0	0	0	0	0	0	0
II	45	5	0	0	0	0	0	0	0
II	50	35	0	9.0194924	7.0779234	0	0	0	0
II	50	5	0	0	4.3529229	0	0	0	0
II	60	5	0	0	0	0	0	0	0
II	60	50	0	4.1088799	5.8038972	0	0	0	0
II	70	42	0	0.821776	0	0	0	0	0
II	70	5	0	0	5.8038972	0	0	18.745779	0
II	80	50	0	0	0	1.8852569	1.1950224	0	0
II	90	35	0	51.003123	0	0	0	0	0
II	90	5	0	0	0	0	0	0	0
III	100	5	0	0	0	0	0	0	0
III	100	65	0	0	3.2296548	0	0	0	0
III	120	5	0	0	0	0	0	0	0
III	120	72	0	1.2468982	0.9688964	0	0	0	0
III	140	5	0	0	0.3229655	0	0	0	0
III	140	80	0	0	0	0	0	0	0
III	20	5	0	9.9751854	0	0	0	0	0
III	25	22	0	0	1.9377929	0	0	0	0
III	25	5	0	0	0.645931	0	0	0	0

III	30	25	0	14.962778	0.965207	0	0	0	0
III	30	5	0	5.5417697	2.8708042	0	0	0	0
III	35	26	0	0.6234491	1.2918619	0	0	0	0
III	35	5	0	0	0	0	0	0	0
III	40	15	0	0.3117245	0	0	0	0	0
III	45	5	0	0.3117245	0	0	0	0	0
III	45	5	0	0	0	0	0	0	0
III	50	40	0	0	0	0	0	0	0
III	50	5	0	1.8703473	0	0	0	0	0
III	60	40	0	0	0.645931	0	0	0	0
III	60	5	0	0	0	0	0	0	0
III	70	37	0	0	0	0	0	0	0
III	70	5	0	0	2.6287888	0	0	0	0
III	80	40	0	0	0	0	0	0	0
III	80	5	0	0	0.7177011	0	0	0	0
III	90	49	0	0	0	0	0	0	0
III	90	5	0	0	0	0	0	0	0
IV	100	5	0	0	0	0	0	0	0
IV	100	50	0	0	0.0699875	0	0	0	0
IV	120	5	0	0	0	0	0	0	0
IV	120	67	0	0	0	0	0	0	0
IV	140	5	0	0	0	0	0	0	0
IV	140	60	0	0	0	0	0	0	0
IV	20	5	0	0	0	0	0	0	0
IV	25	5	0	0.6658069	0	0	0	0	0
IV	30	5	0	0	0	0	0	0	0
IV	35	5	0	0	0	0	0	0	0
IV	40	5	0	0	0	0	0	0	0
IV	45	5	0	0.3329035	0	0	0	0	0
IV	50	11	0	0	0	0	0	0	0
IV	50	5	0	0.6658069	0	0	0	0	0
IV	60	5	0	0	0.139975	0	0	0	0
IV	70	5	0	0	0	0	0	0	0
IV	80	5	0	0	0	0	0	0	0
IV	80	52	0	0.3329035	0.0699875	0	0	0	0
IV	90	5	0	0	0	0	0	0	0
IV	90	50	0	0	0	0	0	0	0
V	100	5	0	0	0	0	0	0	0
V	120	5	0	0	0	0	0	0	0
V	20	5	0	0	0	0	0	0	0
V	25	5	0	0	0	0	0	0	0
V	30	5	0	0	0	0	0	0	0
V	35	5	0	0	0	0	0	0	0
V	40	5	0	0	0	0	0	0	0
V	45	5	0	0	0	0	0	0	0
V	50	5	0	0	0	0	0	0	0
V	60	5	0	0	0	0	0	0	0
V	70	5	0	0	0	0	0	0	0
V	80	5	0	0	0.1142011	0	0	0	0
V	90	5	0	0	0	0	0	0	0

Cruzeiro	isóbata	Prof	CO SP8 7R	CO SP9 7R	CO SPP 7R	CO WAI 7R	CY SPP 7R	CY CLO 7E	CY MAT 7K
I	100	5	0	0	0	0	0	0	0
I	100	50	0	0	0	25.306467	0	0.0007243	0
I	130	5	0	0	0	0	0.0386496	0.0007243	0.0254816
I	130	73	0	0	0	0	0.0267533	0.6692087	0
I	20	5	0	0	0	0	0	0	0
I	25	5	0	0	11.947249	0	0	0	0
I	30	5	0	0	0	0	0.0601949	0.0115232	0
I	40	40	0	0	40.620648	0	0.2484573	0.0903973	0.1323622
I	40	5	0	0	0	0	0	0	0
I	50	40	0	0	5.9736247	0	0	0.1506622	0.0318519

I	50	5	0	0	11.947249	0	0.0401299	0.0828642	0.2194245
I	60	5	0	0	0	0	0.0481559	0.0004829	0
I	60	50	0	0	0	0	0	0	0.0169877
I	70	5	0	0	0	0	0	0	0.0053087
I	70	50	0	0	0	0	0.0601949	0.1129966	0.0053087
I	80	50	0	0	0	0	0	0	0
I	90	50	0	0	0	0	0	0	0
II	100	42	0	0	0	0	0	0	0
II	100	5	0	0	0	0	0	0.0721244	0
II	120	5	0	0	0	0	0.1080324	0.0750094	0
II	120	60	0	0	0	0	0	0.0054417	0
II	140	5	0	0	0	0	0.0540162	0.0013604	0
II	140	80	0	0	4.8165204	0	0.0270081	0.0006802	0
II	20	18	0	0	0	0	0	0	0.2133881
II	20	5	0	0	0	0	0.4571574	0.12674	0.6935113
II	25	20	0	0	0	107.2978	0	0.6000752	0
II	30	20	0	0	0	0	0	0.0141342	0
II	30	5	0	0	0	0	0.5050501	0.0005442	0.0189099
II	35	30	0	0	0	0	0.5401618	0.0321469	0
II	35	5	0	0	0	0	0	0.2708673	0.0157583
II	40	25	0	0	0	25.355892	0.0540162	0.006462	0.0709122
II	40	5	0	0	0	12.677946	0	0.0006802	0.009455
II	45	40	0	0	0	495.41353	0.2314979	0	0
II	45	5	0	0	0	0	50.505008	0.0143663	1.5786364
II	50	35	0	0	23.495222	0	0.0329367	0.03659	0.0288261
II	50	5	0	0	0	0	0.0270081	0.0300038	0.0283649
II	60	5	0	0	0.2338264	86.697367	0.3781132	0.0625078	0
II	60	50	0	0	0	12.677946	0.0540162	0.0136042	0
II	70	42	0	0	4.8165204	0	0	0	0.0189099
II	70	5	0	0	0	0	0.4861456	0.2759414	0.0472748
II	80	50	0	0	0	0	0.2160647	0	0
II	90	35	0	0	0	0	0	0	0
II	90	5	0	0	0	0	0	0.0150019	0.0472748
III	100	5	0	0	0	0	0	0	0
III	100	65	0	8.6878337	0	0	7.3431697	0	0
III	120	5	0	0	0	0	0	0	0
III	120	72	0	0	0	0	0	0	0
III	140	5	0	0	0	0	0.028243	0	0
III	140	80	0	0	0	0	0.028243	0.0308664	0
III	20	5	0	0	0	0	0.7449065	0.030044	0
III	25	22	0	0	0	86.837649	0.8802369	0.0338736	0.1840061
III	25	5	0	0	0	0	4.0740378	0.0061961	0
III	30	25	0	0	0	28.945883	0	0.021859	0.0644021
III	30	5	0	0	0	0	0.0627621	0.009835	0.0102226
III	35	26	13.260445	0	0	0	0.0006962	0	0.0046002
III	35	5	0	0	0	0	0	0.0021244	0
III	40	15	0	0	0	0	0.028243	0.0026555	0
III	45	5	0	0	0	14.472942	0	0.1139107	0
III	45	5	0	0	0	14.472942	0	0.0017703	0.1433711
III	50	40	0	0	0	86.837649	0.8451949	0.9062135	0
III	50	5	0	0	0	0	0.8802369	0.0216973	0
III	60	40	0	0	0	28.945883	1.3203553	0	0
III	60	5	0	0	0	28.945883	0	0.0132773	0
III	70	37	0	0	0	0	0	0	0
III	70	5	0	0	0	50.487005	0.098522	0	0
III	80	40	0	0	0	43.418825	0	0	0
III	80	5	0	0	0	0	0	0.0210316	0
III	90	49	0	0	0	0	0	0	0
III	90	5	0	0	0	0	0	0.0026555	0.2150566
IV	100	5	0	0	5.8812234	0	0	0	0
IV	100	50	0	0	5.8812234	0	0	0	0
IV	120	5	0	0	0	0	0	0	0
IV	120	67	0	0	5.8812234	0	0	0	0

IV	140	5	0	0	0	0	0	0	0
IV	140	60	0	0	0	0	0	0	0
IV	20	5	0	0	0	0	0.1425575	0.173668	0
IV	25	5	0	0	0	0	0	0.043417	0.0527618
IV	30	5	0	0	0	0	0.8687076	0.1668824	0
IV	35	5	0	0	0	0	0.1069181	0.0308664	0
IV	40	5	0	0	0	0	0.0356394	0.086834	0
IV	45	5	0	0	0	12.771148	0	0.0124049	0
IV	50	11	0	0	17.64367	12.771148	0.053459	0.0525749	0
IV	50	5	0	0	0	63.855741	0.0178197	0.0086834	0.0052762
IV	60	5	0	0	0	51.084593	0.0712787	0	0
IV	70	5	0	0	0	0	0	0.0308664	0
IV	80	5	0	0	0	25.542296	0	0	0
IV	80	52	0	0	0	25.542296	0	0.0617327	0
IV	90	5	0	0	0	0	0	0	0.0052762
IV	90	50	0	0	0	0	0.0356394	0	0
V	100	5	0	0	0	0	0	0.0148685	0
V	120	5	0	0	0	0	0.028243	0.0148685	0
V	20	5	0	0	0	0	0	0	0
V	25	5	0	0	0	0	0.0337714	0	0.0131575
V	30	5	0	0	0	0	0.0337714	0.0032018	0
V	35	5	0	0	0	0	0	0.0617327	0
V	40	5	0	0	0	0	0	0	0.0131575
V	45	5	0	0	0	0	0.0422143	0.0617327	0.0131575
V	50	5	0	0	0	0	0.0422143	0.0308664	0
V	60	5	0	0	0	0	0	0	0
V	70	5	0	0	0	0	0	0	0
V	80	5	0	0	0	0	0	0	0
V	90	5	0	0	0	0	0.028243	0	0

Cruzeiro	isóbata	Prof	DC FRA 7R	DL SPP 7U	DT SPP 7R	DP SP1 7V	DP spp 7V	DI BRI 7O	EU SPP 7U
I	100	5	0	0	0	0	0	0	0
I	100	50	0	0	0	0.017423	0	0	0
I	130	5	0	0	0	0	0.0087115	0	0
I	130	73	0	0	0	0	0	0	0.0571819
I	20	5	0	0	0	1.6290445	0	0.8576122	2.4059216
I	25	5	0	0	0	0	0	0	0
I	30	5	0	0	0	0	0	0	0
I	40	40	0	0	0	0.2961906	0	0	0
I	40	5	0	0	0	0.0087115	0	1.7152243	0
I	50	40	0	0	0	0.3702383	0	0	0
I	50	5	0	0	0	0.0145191	0	0	0
I	60	5	0	0	0	0	0	0	0
I	60	50	0	0	0	0.4072611	0.0087115	0	0
I	70	5	0	0	0	0	0	0	0
I	70	50	0	0	0	0	0	0	0
I	80	50	0	0	0	0	0	0	0
I	90	50	0	0	0	0	0	0	0
II	100	42	0	0	0	0	0	0	0
II	100	5	0.1980935	0	0	0.0081172	0	0	0
II	120	5	0.3740839	0	0	0	0	0	0
II	120	60	0	0	0	0	0	0	0
II	140	5	0	0	0	0	0	0	0
II	140	80	0	0	0	0	0	0	0
II	20	18	0	0	0	1.7861644	0	0	0
II	20	5	0	0	0	0	0	0	0
II	25	20	0.2753044	0	0	0.750189	0	0	0
II	30	20	0.0369648	0	0	0.3844064	0	0	0
II	30	5	0	0	0	0	0	0	0
II	35	30	0	0	0	0.1989873	0	0	0
II	35	5	0	0	0	0	0	0	0
II	40	25	0	0	0	0	0	0	0

II	40	5	0	0	0	0.1139655	0.7399824	0	0
II	45	40	0	0	0	0.0180898	0	0	0
II	45	5	0	0	0	0.4228471	0	0	0
II	50	35	0	0	0	0.0077212	0	0	0
II	50	5	0.0760364	0.0165519	0	0	0	0	0
II	60	5	0	0	0	0.0986643	0	0	0.3410697
II	60	50	0	0	0	0.075977	0	0	0.4385182
II	70	42	2.1306519	0	0	0.0126628	0	0	1.7540728
II	70	5	0.0975871	0	0.1569348	0.1973286	0	0	0
II	80	50	0	0	0	0.1973286	0	0	0
II	90	35	0	0	0	0	0	0	0
II	90	5	0.0650581	0	0	0	0	0	0
III	100	5	0	0	0	0	0	0	0
III	100	65	0	0	0	0	0.090798	0	0
III	120	5	0	0	0	0	0	0	0
III	120	72	0	0	0	0.0172269	0.0181596	0	0
III	140	5	0	0	0	0	0	0	0
III	140	80	0	0	0	0	0	0	0
III	20	5	0	0	0	0.0726384	0	0	0
III	25	22	0	0	0	0.0344538	0.2413709	0	0
III	25	5	0	0	0	0	0	0	0
III	30	25	0	0	0	0.0726384	1.2734385	0	0
III	30	5	0	0	0	0	0	0	0
III	35	26	0	0	0	0.0817182	0	0	0
III	35	5	0	0	0	0	0	0	0
III	40	15	0	0	0	0.045399	0	0	0
III	45	5	0	0	0	0.1271172	0	0	0
III	45	5	0	0	0	0	0	0	0
III	50	40	0	0	0	0.8716605	0	0	0
III	50	5	0	0	0	0	0	0	0
III	60	40	0	0	0	0	0	0	0
III	60	5	0	0	0	0	0	0	0
III	70	37	0	0	0	0	0	0	0
III	70	5	0	0	0	0	0	0	0
III	80	40	0	0	0	0	0	0	0
III	80	5	0	0	0	0	0	0	0
III	90	49	0	0	0	0	0	0	0
III	90	5	0	0	0	0	0	0	0
IV	100	5	0	0	0	0	0	0	0
IV	100	50	0	0	0	0.0098968	0	0	0
IV	120	5	0	0	0	0	0	0	0
IV	120	67	0	0	0	0	0	0	0
IV	140	5	0	0	0	0	0	0	0
IV	140	60	0	0	0	0	0	0	0
IV	20	5	0	0	0	0	0.1187614	0	0
IV	25	5	1.1104442	0	0	0.0395871	0	0	0
IV	30	5	0	0	0	0.0593807	0	0	0
IV	35	5	0.0793174	0	0	0.1781421	0	0	0
IV	40	5	0	0	0	0.2375228	0	0	0
IV	45	5	0	0	0	0	0.2007629	0	0
IV	50	11	0	0	0	0.27711	0	0	0
IV	50	5	0	0	0	0	0.1073799	0	0
IV	60	5	0	0	0	0	0	0	0
IV	70	5	0	0	0	0	0	0	0
IV	80	5	0	0	0	0	0	0	0
IV	80	52	0	0	0	0.1583486	0	0	0
IV	90	5	0	0	0	0	0	0	0
IV	90	50	0	0	0	0	0	0	0
V	100	5	0	0	0	0	0	0	0
V	120	5	0	0	0	0	0	0	0
V	20	5	0	0	0	0	0.1329913	0	0
V	25	5	0	0	0	0.0332478	0	0	0
V	30	5	0	0	0	0.0166239	0	0	0

V	35	5	0	0	0	0	0	0	0
V	40	5	0	0	0	0.0166239	0	0	0
V	45	5	0	0	0	0	0	0	0
V	50	5	0	0	0	0	0	0	0
V	60	5	0	0	0	0	0	0	0
V	70	5	0	0	0	0	0	0	0
V	80	5	0	0	0	0	0	0	0
V	90	5	0	0	0	0	0	0	0

Cruzeiro	isóbata	Prof	EU TIN 9	FA SPP 7U	FR DIO 7U	GU STR 7R	HS SPP 7U	HE HAU 7U	HE IND 7U
I	100	5	0	0.03766	0.0073998	0	0	0	0
I	100	50	0	0	0	0.0894438	0	0	0
I	130	5	0	0	0	0	0	0	0
I	130	73	0	0	0.0191848	0	0	0	0
I	20	5	0	0	0	0.0766661	0	0.4851491	0
I	25	5	0	0	0	0.5749957	0	2.3154845	0.4748539
I	30	5	0	0.0504202	0	0.0319442	0	0.0551306	0
I	40	40	0	0.3327734	0.076876	0	0	0	0
I	40	5	0	0.0110924	0	0.0255554	0	0.4630969	0
I	50	40	0	0.0741475	0	0.4472189	0	0	0
I	50	5	0	0.0369748	0	0.1277768	0	0.2940298	0
I	60	5	0	0	0	0	0	0	0
I	60	50	0	0.0011864	0	0.0255554	0	0	0
I	70	5	0	0	0	0	0	0	0
I	70	50	0	0	0	0	0	0	0
I	80	50	0	0	0.0098665	0.4216635	0	0	0
I	90	50	0	0	0.0098665	0	0	0	0
II	100	42	0	0	0	0	0	0.0576643	0.0902127
II	100	5	0	0	0	0	0.0381088	0.1848214	1.0409155
II	120	5	0	0	0.1848906	0	0.0594498	0.40365	0
II	120	60	0	0	0	0.0517171	0	0	0
II	140	5	0	0	0	0	0	0	0
II	140	80	0	0	0	0	0	0	0
II	20	18	0	0	0	0	0	0	7.4653408
II	20	5	0	0	0	15.048202	0	0	87.208754
II	25	20	0	0	0	0	0	0	11.070761
II	30	20	0	0.1640494	0.1050515	0	0	0	13.053501
II	30	5	0	0	0	0.0344781	0	0.0864964	110.45039
II	35	30	0	0	2.3573547	0.3070184	0	0	18.343244
II	35	5	0	0	0	0.0613119	0	0	62.44722
II	40	25	0	0	0.0404448	0.1091806	0	0	0.3758862
II	40	5	0	0	0	0.1343205	0	0	0.6314887
II	45	40	0	0	0	0	0	0	0.1288753
II	45	5	0	0	0.3466698	0	0	0	0.0859168
II	50	35	0	0	0	0.5509589	0.1087496	0	0.2750386
II	50	5	0	0	0.0323558	0.0057463	0.0297249	0.0576643	0.0902127
II	60	5	0	0	0.1417371	0.1839357	0	0	0.1804254
II	60	50	0	0.042106	0.0380658	1.4417554	0	0	0
II	70	42	0	0	0	4.0278615	0	0	0.1202836
II	70	5	0	0	0.0069211	0	0	0	0.1804254
II	80	50	0	0	0.0207632	0.1471485	0	0	0
II	90	35	0	0	0	0	0	0	0
II	90	5	0	0	0	0.1034342	0.1486245	0	0.6916305
III	100	5	0	0	0	0	0.0138503	0	0
III	100	65	0	0	0	0	0	0	0
III	120	5	0	0	0	0	0.0238225	0	0.0206769
III	120	72	0	0	0	0	0	0	0
III	140	5	0	0	0	0	0	0	0
III	140	80	0	0	0	0	0.0238225	0	0
III	20	5	0	0	0	3.1114819	0.0238225	0.0644792	0
III	25	22	0	0.0625356	0	0.329705	0	0.1255998	0.3308299
III	25	5	0	0	0	1.6485251	0	0	0.2067687

III	30	25	0	0.1400535	0	0	0	0	0
III	30	5	0	0.0902325	0.9106783	0	0	0.209333	0
III	35	26	0	0.0260565	0	0	0	0	0.0620306
III	35	5	0	0.0974511	0	0	0	0	0.0206769
III	40	15	0	0.1624186	0	1.1767601	0.0357338	0.0627999	0
III	45	5	0	0.0234509	0	0	0	0	0
III	45	5	0	0	0	0.6129828	0	0	0
III	50	40	0	0.1042261	0	0	0	0	0
III	50	5	0	0	0	0	0	0	0
III	60	40	0	0.0052113	0.2840154	0.0846304	0.0952901	0	1.6541494
III	60	5	0	0	0	0	0.0714676	0	3.8458973
III	70	37	0	0	0.2051222	0	0.0119113	0	0.8063978
III	70	5	0	0	0.0061157	0	0	0	1.6108722
III	80	40	0	0	0.4102445	0	0	0	0.3515067
III	80	5	0	0	0	0	0	0	4.640808
III	90	49	0	0	0.1788245	0	0	0	0.2481224
III	90	5	0	0	0	0	0.0238225	0	14.473807
IV	100	5	0	0	0	0	0	0	0
IV	100	50	0	0	0.0320958	0	0	0	0
IV	120	5	0	0	0	0	0.0133365	0	0
IV	120	67	0	0	0	0	0	0	0
IV	140	5	0	0	0	0	0	0	0
IV	140	60	0	0	0.0064192	0	0	0	0
IV	20	5	0	0.4118095	0	2.6780703	0	0.0233384	0.174784
IV	25	5	0	0.056058	0	4.3968628	0	0	0.3786988
IV	30	5	0	0.2015926	0	1.1679387	0	1.6366	0.0582613
IV	35	5	0	0.0301851	0	0.1167939	0	0	0
IV	40	5	0	0.0474337	0	0	0	0	0.0582613
IV	45	5	0	0.2591905	0	0	0	0	0
IV	50	11	0	0.0474337	0	0	0	0	0
IV	50	5	0	0.4031852	0	0	0	0	0
IV	60	5	0	0.0172486	0	0	0.053346	0	0
IV	70	5	0	0	0	0	0.026673	0	0
IV	80	5	0	0	0	0	0.026673	0	0
IV	80	52	0	0.0064682	0	0	0.0400095	0	0
IV	90	5	0	0	0	0	0	0	0
IV	90	50	0	0.0064682	0	0	0	0	0
V	100	5	0	0	0	0	0	0	0
V	120	5	0	0	0	0	0	0	0
V	20	5	0	0.0127053	0	0.0160444	0	0	0
V	25	5	0	0.0063526	0	0	0	0	0
V	30	5	0	0.0190579	0	0	0	0	0
V	35	5	0	0.0063526	0	0	0	0	0
V	40	5	0	0	0	0	0	0	0
V	45	5	0	0	0	0	0	0	0
V	50	5	0	0	0	0	0	0	0
V	60	5	0	0	0	0	0	0	0
V	70	5	0	0	0	0	0	0	0
V	80	5	0	0	0	0	0	0	0
V	90	5	0	0	0	0	0	0	0

Cruzeiro	isóbata	Prof	HE MEM 7U	HM CUN 7I	PD STE 7R	LE DAN 7R	LI PAC 7T	MA SPP 7U	ME SPP 7R
I	100	5	0	0	1.2298706	0	0	0	0
I	100	50	0	0.1162	0	0	0	0	0
I	130	5	0.0743168	0	0	0	0.0588418	0	0
I	130	73	0	0.1291111	0	0	0	0	0
I	20	5	0	0	0	0	0.1961392	0	0
I	25	5	0	0	0	0	0.2942089	0	0
I	30	5	0.9289594	0	0	0	0	0	0
I	40	40	0	0	1.6983402	0	0.0196139	0	0
I	40	5	0	0	0	0	0	0	0
I	50	40	0	0	1.4152835	0	0	0	0

I	50	5	2.2295027	0	0.9435223	0	0	0	0
I	60	5	0	0	1.1322268	0	0	0	0
I	60	50	0	0	0	0	0	0	0
I	70	5	0	0	0	0	0	0	0
I	70	50	0	0	0	0	0	0	0
I	80	50	0	0	0.5661134	0	0	0	0
I	90	50	0	0	0	0	0	0	0
II	100	42	0	0	0	0	0.0881669	0	0.1714794
II	100	5	0	0	0	0.0707833	0	0	0
II	120	5	0	0	0	0.0049164	0.2938897	0	0
II	120	60	0	0	0	0	0	0	0
II	140	5	0	0	0	0	0	0	0
II	140	80	0	0.1326728	0	0	0.0881669	0	0
II	20	18	0	0	0	0	0	0	0
II	20	5	15.935059	0	0	0.3517269	0	0	0
II	25	20	0	0	0	0.0345309	0	0	0
II	30	20	0	0	0	0.268167	0	0	3.8601703
II	30	5	0	0	0	0.0137659	0	0	0
II	35	30	0	0	0	0	0.0839685	0.4568244	0
II	35	5	0	0	0	0.0166235	0	0	0
II	40	25	0	0.1326728	0	0	0.029389	0	0
II	40	5	0	0	4.5289071	0.0285604	0	0	0
II	45	40	0	0	0	0	0	0	0
II	45	5	4.6004651	0	0	0	0	0	0
II	50	35	0	0	0	0	0.0358402	0	0
II	50	5	0	0	0	0	0	0	0
II	60	5	0	0	0	0.1204517	5.9537022	0	0
II	60	50	0	0	0	0	0.7641133	0	0
II	70	42	0	0	0	0.3441476	0.0587779	0	0
II	70	5	0	0	0	0.00272	0.0587779	0	0
II	80	50	0	0	0	0	0	0.0369824	0
II	90	35	0	0	0	0	0	0	0
II	90	5	2.5487128	0	0	0	0.2645008	0	0
III	100	5	0	0	0	0	0	0	0
III	100	65	0	0	0	0	0	0	0
III	120	5	0	0	0	0	0	0	0
III	120	72	0	0	0	0	0	0	0
III	140	5	0	0	0	0	0	0	0
III	140	80	0	0	0	0	0	0	0
III	20	5	0	0	0	0.1047946	0	0	0
III	25	22	0	0.0288662	0	0	0	0	0
III	25	5	0	0.1154649	0	0	0	0	0
III	30	25	0	0	0	0	0	0	0
III	30	5	0	0.2037736	0	0	0	0	0
III	35	26	0	0	2.282327	0	0	0	0
III	35	5	0	0	0	0	0	0	0
III	40	15	0.1391776	0	0.2685091	0	0.0205926	0	0
III	45	5	0	0.2750944	0	0	0	0	0
III	45	5	0	0	0	0	0	0	0
III	50	40	0	0.1833963	0	0	0	0	0
III	50	5	0	0	0	0	0	0	0
III	60	40	0.0927851	0.1833963	0	0	0.0411851	0	0
III	60	5	1.577346	0	0	0	0.1235554	0	0
III	70	37	0.6958879	0.0916981	0	0	0	0	0
III	70	5	0.9170616	0.1066257	0	0	0	0	0
III	80	40	0	0	0	0	0.0617777	0.0168376	0
III	80	5	0	0	0	0	0	0	0
III	90	49	0	0	0	0	0	0	0.3359328
III	90	5	1.7629161	0	0	0	0	0	0
IV	100	5	0	0	0	0	0	0	0
IV	100	50	0	0	0	0	0	0	0.1679664
IV	120	5	0	0	0	0	0	0	0
IV	120	67	0	0	0	0	0	0	0

IV	140	5	0	0	0	0	0	0	0
IV	140	60	0	0	0	0	0	0	0
IV	20	5	0	0	0	0	0.0736375	0	0
IV	25	5	0	0	0	0	0.2577313	0	0
IV	30	5	0	0.1399782	0	0	0.4050063	0	0
IV	35	5	0	0	0	0	0	0	0
IV	40	5	0	0	0	0	0	0	0
IV	45	5	0	0	0	0	0	0	0
IV	50	11	0	0	2.0875799	0	0.0184094	0	0.1119776
IV	50	5	0.6098731	0	0	0	0	0	0
IV	60	5	0	0	0	0	0	0	0
IV	70	5	0	0	0	0	0	0.2239552	0
IV	80	5	0	0	0	0	0	0	0
IV	80	52	0	0	0	0	0	0	0
IV	90	5	0	0	0	0	0	0	0
IV	90	50	0	0	0	0	0	0	0
V	100	5	0	0	0	0	0	0	0
V	120	5	0	0	0	0	0	0	0
V	20	5	0	0	0	0	0	0	0
V	25	5	0	0	0	0	0	0	0
V	30	5	0	0	0	0	0	0	0
V	35	5	0	0	0	0	0	0	0
V	40	5	0	0	0	0	0	0	0
V	45	5	0	0	0	0	0	0	0.1119776
V	50	5	0	0	0	0	0	0	0.1119776
V	60	5	0	0	0	0	0	0	0
V	70	5	0	0	0	0	0	0	0
V	80	5	0	0	0	0	0	0	0
V	90	5	0.1100479	0	0	0	0	0	0

ME MEM 7U	NA SP5 7U	NA SP1 7U	NA DIR 7U	NA SP2 7U	NA SP3 7U	NA SP4 7U	NA SP5 7U	NA SPP 7U	NI SP1 7U
0	0	0	0	0	0	0.019208	0	0	0
0	0	0	0	0	0	0	0	0	0.0439538
0	0	0	0	0	0	0	0	0	0.2197688
0	0	0	0	0	0	0	0	0	0
0.1370078	0	0	0	0	0	0	0	0.0418201	0
1.3700778	0	0	0	0	0	0	0	0.0522752	0
0.1712597	0.0918137	0	0	0.0518529	0	0	0	0.2352382	0
0	0	0	0	0.018553	0	0.1440603	0	0	0
0	0.4079469	0	0	0	0	0	0	0	0.0175815
0	0	0	0	0.3802549	0	0.1200503	0	0	0
0	0	0.0439538	0	0.0380255	0	0.0960402	0	0	0
0	0	0	0	0	0	0	0	0	0.059175
0	0	0	0	0	0	0.009604	0	0	0.0439538
0	0	0	0	0	0	0	0	0	0.0549422
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0.0879075
0	0.3445557	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0.0356723
0	0.0097251	0	0	0	0	0	0	0	0.0317993
0	0	0	0	0	0	0	0	0.0194501	0.0185496
0	0	0.0040974	0	0	0	0	0	0.3030968	0
0	0	0	0	0	0	0.0428573	0	0	0
0	0	0	0	0	0	0	0	2.963032	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0.6045273	0	0	0
0	0	0	0	0	0	0.0324677	0	0	0
0	0	0.0556488	0	0	0	0.0285716	0	0.5455742	0
0	0	0.0234139	0	0	0	0	0	1.2989861	0.0085025
0.7788809	0	0	0	0	0	0.0476193	0	0.0648337	0.061832
0	0	0.0957772	0.0081949	0	0	0	0	0	0.0098333

0	0	0.1915545	0	0	0	0	0	0	0
0	0	0	0	0	0.2259027	0.2040826	0	0.649493	0.0397492
0	0	0	1.094597	0	0	0	0	0.649493	0
0	0	0	0	0	0	0	0	0.6653343	0.1357288
0	0	0	0.0383109	0	0	0.0714289	0	0.0194501	0.0612137
0	0.0013344	1.108656	0	0	0	0	0	0	0.0035711
0.5452167	0	0	0.0245846	0	0	0	0	0.0583503	0
0.856769	0	0	0	0.198461	0	0	0	0	0
0	0	0	0	0	0.0160134	0	0	0.3306518	0.0011904
0	0	0	0	0.0081949	0	0	0	0.6061935	0
0	0	0.1155932	0	0	0	0	0	0	0.0033581
0	0	0	0	0	0	0	0	0	0.0222595
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0.3236743	0	0	0
0	0	0	0	0.0019929	0	0.0323674	0.0631017	0	0
0	0	0	0	0	0	0	0.0971023	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0.0177438	0
0.4789713	0	0	0.0106896	0.0931667	0	0	0	0.0578139	0
0	0	0	0	0.0621112	0	0	0	0.1774379	0.0245329
0.053219	0	0	0	0	0.0743187	0.3884092	0	0.0770852	0.0490657
0	0	0	0	0	0	0	0	0.0354876	0
0	0	0	0	0	0	0.0719276	0	0	0.0272587
0	0	0	0	0	0	0	0	0.0887189	0
0	0	0	0	0.0019929	0	0.4207767	0	0.161879	0
0	0	0	0	0	0	0.0647349	0	0.0385426	0.1594635
0	0	0	0	0	0	0.226572	0	0.0177438	0.6897247
0	0	0	0	0.0019929	0	0.1294697	0	0.0354876	0.1349307
0	0	0	0	0.0621112	0	0.517879	0.2524066	0	0.0737675
0	0	0	0	0	0	0	0	0.0385426	0.0245329
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0.0354876	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0.1618372	0	0	0
0	0	0	0	0	0	0	0	0.0408881	0
0	0	0	0	0	0	0	0	0	0.0367993
0	0	0	0	0	0	0	0	0	0.0183996
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0.0852146
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0.5112874
0	0	0	0	0	0	0	0	0	0.0852146
0	0	0	0	0	0	0.17116	0.9729242	0.6923224	0
0	0	0	0	0	0	0.5990601	0.3891697	0	0.0074045
0	0	0	0	0	0	0	0	0	0.0852146
0	0	0	0	0	0	0.17116	0	0	0
0	0	0	0	0	0	0.8558002	0.0972924	0	0
0	0	0	0	0.0703752	0	0.2995301	0.3405235	0.1332626	0.0049693
0.2417673	0	0	0	0	0	0.2995301	0	0	0
0	0	0	0	0	0.0123483	0.04279	0	0.1243784	0
0	0	0	0	0	0	0.17116	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0.0852146
0	0	0	0	0	0	0.08558	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0.0088961	0	0.0247824
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0.1113057	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0.0556528	0	0	0

0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0.2478242
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0.1239121
0	0	0	0	0	0	0	0	0	0.1239121
0	0	0	0	0	0	0	0	0	0.1239121

Cruzeiro	isóbata	Prof	NI SP2 7U	PA SUL 7R	PL TEN 7U	PG SPP 7U	PL SPP 7U	PN S10 7U	PN SPP 7U
I	100	5	0.0213698	0	0	0	0	0	0.0154142
I	100	50	0	0	0	0	0	0.0180704	0.0308283
I	130	5	0.0002674	0	0	0.0720022	0	0.0542113	0
I	130	73	0	0	0	0	0	0	0
I	20	5	0	0	0	0	0.1204335	0	0
I	25	5	0	0	0	0	0.3010836	0	0.0228637
I	30	5	0	0	0	0.0600019	0.5268964	0.0328553	0.0115369
I	40	40	0	0.0165462	0.0926645	0.87758	0.662384	0	0
I	40	5	0	0	0	0.0240007	0.0602167	0	0.0123313
I	50	40	0	0	0	0.3010836	0	0.0101283	0
I	50	5	0	0	0	0	0.1505418	0	0.0021775
I	60	5	0	0	0	0	0	0.012047	0
I	60	50	0.0191639	0	0	0	0.0301084	1.2992206	0
I	70	5	0	0	0	0	0	0	0.0770709
I	70	50	0	0	0	0.0300009	0	0	0
I	80	50	0	0	0	0	0.0301084	0.0013504	0
I	90	50	0	0	0	0	0	0	0
II	100	42	0	0	0	0	0	0	0
II	100	5	0.1575844	0	0	0	0	0.0248369	0.1448417
II	120	5	0	0.0051776	0	0.067798	0	0.2336145	0.0042702
II	120	60	0	0	0	0	0	0	0.0502118
II	140	5	0	0	0	0	0	0	0.0125529
II	140	80	0	0	0.0451987	0	0	0.0145296	0.0010676
II	20	18	0	0	0	4.5903843	1.4653474	0	0
II	20	5	0	0	0	0	0.2442246	0	0.0120469
II	25	20	0	0	0	0.191266	0.9158421	0	0.0311293
II	30	20	0	0	0	0.1614239	0	0	0.0489076
II	30	5	0	0	0	0	0	0	0.0451906
II	35	30	0	0	0	0	0.2473436	0	0.0876024
II	35	5	0	0	0	0	0	0	0
II	40	25	0.0107117	0.0038832	0.0451987	0	0	0.0024216	0.0753177
II	40	5	0	0.0077664	0	0	0.1298554	0	0.0376588
II	45	40	0	0	0	0	0	7.7214382	0.0305018
II	45	5	0	0.2593421	0	0	59.26184	2.2439231	0
II	50	35	0.6061269	0	0	0	0	0.0047251	0
II	50	5	0.0085694	0.0451987	0	0	0.2131788	0.0167995	0.0301271
II	60	5	0.1020228	0.0491873	0	0	0.0865703	0.0008288	0.0064054
II	60	50	0.0393331	0	0	0	0.0865703	0	0.0502118
II	70	42	0	0	0	0	0	0	0
II	70	5	0.0393331	0.0491873	0	0	0	0.0335989	0.0149459
II	80	50	0	0	0	0	0	0	0.0021351
II	90	35	0	0	0	0	0	0	0
II	90	5	0	0	0	0	0	0.0038746	0
III	100	5	0	0	0	0	0.1259646	0.0030484	0
III	100	65	0	14.12322	0	0	2.1665908	0	0
III	120	5	0	0	0.0121709	0	0	0	0.1664185
III	120	72	0	0.1583913	0.0541648	0	0	0	0.0046038
III	140	5	0	0.0395978	0	0	0	0.0026216	0.0414342
III	140	80	0	0	0	0	0.1624943	0	0.0062771
III	20	5	0	0	0.0121709	0.0373454	0.4333182	0.0409773	0.1109457
III	25	22	0.2299082	0.5169705	0	4.224852	0	0	0.0368304
III	25	5	0	0.5543694	0.3793261	0	0	0.0273182	0.0369819

III	30	25	0	0	0	0	2.0582612	0	0.0092076
III	30	5	0.1967134	0	0	0	1.8757015	0	0
III	35	26	0	0	0	0.0186727	0.704142	0	0
III	35	5	0	0.2507862	0	0	0.1624943	0.0983455	0.0332837
III	40	15	0	0	0	0	0.1624943	0	0
III	45	5	0	0	0.0060855	0	1.8957669	0	0.4715191
III	45	5	0	0	0	0	0.0541648	0.0104864	0.0138114
III	50	40	0	0	0.6881625	0.1867272	4.7664997	0	0.3698189
III	50	5	0.2299082	0.8227527	0.0365128	0.1493818	0	0	0.0554728
III	60	40	0	0.3167825	0	0	0	0.0524322	0.1386821
III	60	5	0	0	0	0	0	0.4150161	0.1109457
III	70	37	0	0	0.0541648	0	0	0.0471889	0.998511
III	70	5	0	0	0.3308077	0	0	0.0644141	0
III	80	40	0	0.0395978	0.0121709	0	0.0541648	0	0.0092076
III	80	5	0	0	0	0	0	0.4553032	0
III	90	49	0	0	0	0	0	0	0
III	90	5	0	0	0	0	0	0.3854937	0
IV	100	5	0	0	0	0	0	0	0.0109737
IV	100	50	0	0	0	0	0	0	0.0426297
IV	120	5	0	0	0	0	0	0	0.0109737
IV	120	67	0	0	0	0	0	0	0.0852595
IV	140	5	0	0	0	0	0	0.0043067	0.0426297
IV	140	60	0	0	0	0	0	0	0.1278892
IV	20	5	0	0.2153518	0	0	1.191637	0	0.3666925
IV	25	5	0	0.1076759	0	0	1.191637	0	0.0426297
IV	30	5	0	0	0	0	0.8511693	0	0
IV	35	5	0	0	0	0	0.3404677	0	0.0852595
IV	40	5	0	0.0897299	0	0	1.5884227	0	0.5541866
IV	45	5	0.0502161	0.0628109	0	0	2.3826341	0	0.0487394
IV	50	11	0	0.0717839	0	0	0	0	0.0426297
IV	50	5	0	0.017946	0	0	0.6618428	0	0.0767335
IV	60	5	0	0.035892	0	0	0.6618428	0	0.0426297
IV	70	5	0	0	0	0	0	0	0
IV	80	5	0	0	0	0	0	0.0043067	0
IV	80	52	0	0	0.0091193	0	0.5294742	0	0.0268017
IV	90	5	0	0	0	0	0	0	0
IV	90	50	0	0	0	0	0	0	0
V	100	5	0	0	0	0	0	0	0.0458531
V	120	5	0	0	0	0	0	0	0
V	20	5	0	0	0	0	0	0	0
V	25	5	0	0	0	0	0	0	0.0073561
V	30	5	0	0.1479423	0	0	0.0432422	0	0
V	35	5	0	0	0	0	0.0864844	0	0
V	40	5	0	0.0522149	0	0	0	0	0.002452
V	45	5	0	0	0	0	0	0	0
V	50	5	0	0	0	0	0	0	61.301128
V	60	5	0	0	0	0	0	0	0
V	70	5	0	0	0	0	0	0	0
V	80	5	0	0	0	0	0	0	0
V	90	5	0	0	0	0	0	0	0

Cruzeiro	isóbata	Prof	PN S11 7U	PN S12 7U	PN S14 7U	PN S15 7U	PN S16 7U	PN S18 7U	PN S19 7U
I	100	5	0	0	0	0	0	0	4.1028019
I	100	50	0	0	0	0	0	0	0.7265378
I	130	5	0	0	0	0	0	0	0.4102802
I	130	73	0	0	0	0	0	0	0.0379889
I	20	5	0	0	0	0	0	0	0
I	25	5	0	0	0	0	0	0	0
I	30	5	0	0	0	0.0047088	0.0099554	0	0
I	40	40	0	0	0	0	0	0	0.1994418
I	40	5	0	0	0	0	0	0	0.017095
I	50	40	0	0	0	0	0	0.0235557	0.1139667

I	50	5	0	0	0	0	0	0.0188446	0.0227933
I	60	5	0	0	0	0	0	0	0.6154203
I	60	50	0	0	0	0	0	0	0
I	70	5	0	0	0	0	0	0	0.8547504
I	70	50	0	0	0	0	0	0	63.572061
I	80	50	0	0	0	0	0	0	0
I	90	50	0	0	0	0	0	0	0.0085475
II	100	42	0	0	0	0	0	0	0
II	100	5	0	0	0	0	0.4617416	0	0
II	120	5	0	0	0	0	0	0	0
II	120	60	0	0	0	0	0	0	0
II	140	5	0	0	0	0	0	0	0
II	140	80	0	0	0	0	0	0	0
II	20	18	0	0	0	0	0	0	0
II	20	5	0	0	0	0	0	0	0
II	25	20	0	0	0	0	0	0	0
II	30	20	0	0.0089329	0	0	0	0	0
II	30	5	0	0	0	0	0	0	0
II	35	30	0	0	0	0	0	0	0
II	35	5	0	0	0	0	0	0	0
II	40	25	0.0018567	0	0	0	0	0	0
II	40	5	0	0	0	0	0	0	0
II	45	40	0	0	0	0	0	0	0
II	45	5	0	0	0	0.3817878	0	0	0
II	50	35	0	0	0	0	0	0	0
II	50	5	0	0	0	0	0	0	0
II	60	5	0	0	0	0	0	0	0
II	60	50	0	0	0	0	0	0	0
II	70	42	0	0	0	0	0	0	0
II	70	5	0	0	0.0526065	0	0	0	0
II	80	50	0	0	0.0526065	0	0	0	0
II	90	35	0	0	0	0	0	0	0
II	90	5	0	0	0	0	0	0	0
III	100	5	0	0	0	0	0	0	0
III	100	65	0	0	0	0	0	0	0
III	120	5	0	0	0	0	0	0	0
III	120	72	0	0	0	0	0	0	0
III	140	5	0	0	0	0	0	0	0
III	140	80	0	0	0	0	0	0	0
III	20	5	0	0	0	0	0	0	0
III	25	22	0	0	0	0	0	0.0261625	0.0088768
III	25	5	0	0	0	0	0	0	0
III	30	25	0	0	0	0	0	0.06279	0
III	30	5	0	0	0	0	0	0.0581389	0.0098631
III	35	26	0	0	0	0	0	0	0
III	35	5	0	0	0	0	0	0	0.0053261
III	40	15	0	0	0	0	0	0	0
III	45	5	0	0	0	0	0	0	0
III	45	5	0	0	0	0	0	0	0
III	50	40	0	0	0	0	0	0	0
III	50	5	0	0	0	0	0	0	0
III	60	40	0	0	0	0	0	0	0
III	60	5	0	0	0	0	0	0	0
III	70	37	0	0	0	0	0	0	0.0532609
III	70	5	0	0	0	0	0	0	0
III	80	40	0	0	0	0	0	0	0
III	80	5	0	0	0	0	0	0	1.6570059
III	90	49	0	0	0	0	0	0	0
III	90	5	0	0	0	0	0	0	0.0066576
IV	100	5	0	0	0	0	0	0	0
IV	100	50	0	0	0	0	0	0	0
IV	120	5	0	0	0	0	0	0	0
IV	120	67	0	0	0	0	0	0	0

IV	140	5	0	0	0	0	0	0	0
IV	140	60	0	0	0	0	0	0	0
IV	20	5	0	0	0	0	0	0	0
IV	25	5	0	0	0	0	0	0	0
IV	30	5	0	0	0	0	0	0	0
IV	35	5	0	0	0	0	0	0	0
IV	40	5	0	0	0	0	0	0	0
IV	45	5	0	0	0	0	0	0	0
IV	50	11	0	0	0	0	0	0	0
IV	50	5	0	0	0	0	0	0	0
IV	60	5	0	0	0	0	0	0	0
IV	70	5	0	0	0	0	0	0	0
IV	80	5	0	0	0	0	0	0	0
IV	80	52	0	0	0	0	0	0	0
IV	90	5	0	0	0	0	0	0	0
IV	90	50	0	0	0	0	0	0	0
V	100	5	0	0	0	0	0	0.078702	0
V	120	5	0	0	0	0	0	0.0028058	0
V	20	5	0	0	0	0	0	0	0
V	25	5	0	0	0	0	0	0	0
V	30	5	0	0	0	0	0	0	0
V	35	5	0	0	0	0	0	0	0
V	40	5	0	0	0	0	0	0	0
V	45	5	0	0	0	0	0	0	0
V	50	5	0	0	0	0	0	0	0
V	60	5	0	0	0	0	0	0	0
V	70	5	0	0	0	0	0	0	0
V	80	5	0	0	0	0	0	0	0
V	90	5	0	0	0	0	0	0.0028058	0

Cruzeiro	isóbata	Prof	PN S22 7U	PN S24 7U	PN S27 7U	PN S28 7U	PN S29 7U	PN S30 7U	PN S31 7U
I	100	5	0	0	0	0	0	0	0
I	100	50	0	0	0	0	0	0	0
I	130	5	0	0	0	0	0	0	0
I	130	73	0	0	0	0	0	0	0
I	20	5	0	0	0	0	0	0	0
I	25	5	0	0	0	0	0	0	0
I	30	5	0	0	0	0	0	0	0
I	40	40	0	0	0	0	0	0.018606	0.0827717
I	40	5	0	0	0	0	0	0	0
I	50	40	0	0	0	0	0	0	0
I	50	5	0	0	0	0	0	0	0
I	60	5	0	0	0	0	0	0	0
I	60	50	0	0	0	0	0	0	0
I	70	5	0	0	0	0	0	0	0
I	70	50	0	0	0	0	0	0	0
I	80	50	0	0	0	0	0	0	0
I	90	50	0	0	0	0	0	0	0
II	100	42	0	0	0	0	0	0	0
II	100	5	0	0	0	0	0	0	0
II	120	5	0	0	0	0	0	0	0
II	120	60	0	0	0	0	0	0.0178235	0
II	140	5	0	0.0465373	0	0	0	0	0
II	140	80	0	0	0.0555869	0	0	0	0
II	20	18	0	0	0	0	0	0	0
II	20	5	0	0	0	0	0	0	0
II	25	20	0	0	0	0	0	0	0
II	30	20	0	0	0	0	0	0	0
II	30	5	0	0	0	0	0	0	0
II	35	30	0	0	0	0	0	0	0
II	35	5	0	0	0	0	0	0	0
II	40	25	0	0	0	0	0	0	0

II	40	5	0	0	0	0	0	0	0
II	45	40	0	0	0	0	0	0	0
II	45	5	0	0	0	0	0	0	0
II	50	35	0	0	0	0	0	0	0
II	50	5	0	0	0	0	0	0	0
II	60	5	0	0	0	0	0	0	0
II	60	50	0	0	0	0	0	0	0
II	70	42	0	0	0	0	0	0	0
II	70	5	0	0	0	0	0	0	0
II	80	50	0	0	0	0	0	0	0
II	90	35	0	0	0	0	0	0	0
II	90	5	0	0	0	0	0	0	0
III	100	5	0	0	0	0	0	0	0
III	100	65	0	0	0	0	0	0	0
III	120	5	0	0	0	0	0	0	0
III	120	72	0	0	0	0	0	0	0
III	140	5	0	0	0	0	0	0	0
III	140	80	0	0	0	0	0	0	0
III	20	5	0.0305394	0	0	0	0	0	0
III	25	22	0	0	0	0.0161973	0	0	0
III	25	5	0	0	0	0.0189573	0	0.0159447	0
III	30	25	0	0	0.0566837	0	0.0107662	0.2152528	0
III	30	5	0	0	0.2099398	0	0	0	0
III	35	26	0	0	0	0	0	0	0
III	35	5	0	0	0	0	0	0.0382672	0
III	40	15	0	0	0	0	0	0	0
III	45	5	0	0	0	0	0	0	0
III	45	5	0	0	0	0.1327009	0	0	0.301014
III	50	40	0	0	0	0	0	0	0
III	50	5	0	0	0	0	0	0	0
III	60	40	0	0	0	0	0	0	0
III	60	5	0	0	0	0	0	0	0
III	70	37	0	0	0	0	0	0	0
III	70	5	0	0	0	0	0	0	0
III	80	40	0	0	0	0	0	0	0.033446
III	80	5	0	0	0	0	0	0	0
III	90	49	0	0	0	0	0	0	0.066892
III	90	5	0	0	0	0	0	0	0
IV	100	5	0	0	0	0	0	0	0
IV	100	50	0	0	0	0	0	0	0
IV	120	5	0	0	0	0	0	0	0
IV	120	67	0	0	0	0	0	0	0
IV	140	5	0	0	0	0	0	0	0
IV	140	60	0	0	0	0	0	0	0
IV	20	5	0	0	0	0	0	0.0881929	0
IV	25	5	0	0	0	0	0	0.0031497	0
IV	30	5	0	0	0	0	0	0	0
IV	35	5	0	0	0	0	0	0.0062995	0
IV	40	5	0	0	0	0	0	0.0346472	0
IV	45	5	0	0	0	0	0	0	0
IV	50	11	0	0	0	0	0	0.0362221	0
IV	50	5	0	0	0	0	0	0	0
IV	60	5	0	0	0	0	0	0	0
IV	70	5	0	0	0	0	0	0	0
IV	80	5	0	0	0	0	0	0	0
IV	80	52	0	0	0	0	0	0	0
IV	90	5	0	0	0	0	0	0	0
IV	90	50	0	0	0	0	0	0	0
V	100	5	0	0	0	0	0	0	0
V	120	5	0	0	0	0	0	0	0
V	20	5	0	0	0	0	0	0	0
V	25	5	0	0	0	0	0	0	0
V	30	5	0	0	0	0	0	0.0931212	0

V	35	5	0	0	0	0	0	0	0
V	40	5	0	0	0	0	0	0	0
V	45	5	0	0	0	0	0	0	0
V	50	5	0	0	0	0	0	0	0
V	60	5	0	0	0	0	0	0	0
V	70	5	0	0	0	0	0	0	0
V	80	5	0	0	0	0	0	0	0
V	90	5	0	0	0	0	0	0	0

Cruzeiro	isóbata	Prof	PN S32 7U	PN S33 7U	PN s34 7U	PN S35 7U	PN S36 7U	PN S37 7U	PN SP4 7U
I	100	5	0	0	0	0	0	0	0
I	100	50	0	0	0	0	0	0	0
I	130	5	0	0	0	0	0.015155	0	0
I	130	73	0	0	0	0	0	0	0
I	20	5	0	0	0	0	0	0	0
I	25	5	0	0	0	0	0	0	0
I	30	5	0	0	0	0	0	0	0
I	40	40	0	0	0	0	0	0	0
I	40	5	0	0	0	0	0	0	0
I	50	40	0	0	0	0	0	0	0
I	50	5	0	0	0	0	0	0	0
I	60	5	0	0	0	0	0	0	0
I	60	50	0	0	0	0	0	0	0
I	70	5	0	0	0	0	0	0	0
I	70	50	0	0	0	0	0	0	0
I	80	50	0	0	0	0	0	0	0
I	90	50	0	0	0	0	0	0	0
II	100	42	0	0	0	0	0	0	0
II	100	5	0	0	0	0.0707067	0	0	0
II	120	5	0	0	0	0.0023594	0	0	0
II	120	60	0	0	0	0	0	0	0
II	140	5	0	0.0137547	0	0	0	0	0
II	140	80	0	0	0	0	0	0	0
II	20	18	0	0	0	0	0	0	0
II	20	5	0	0	0	0	0	0	0
II	25	20	0	0	0	0	0	0	0
II	30	20	0	0	0	0	0	0	0
II	30	5	0	0	0	0	0	0	0
II	35	30	0	0	0	0	0	0	0
II	35	5	0	0	0	0	0	0	0
II	40	25	0	0	0	0	0	0	0
II	40	5	0	0	0	0	0	0	0
II	45	40	0	0	0	0	0	0	0
II	45	5	0	0	0	0	0	0	0
II	50	35	0	0	0	0	0	0	0
II	50	5	0	0	0	0	0	0	0
II	60	5	0	0	0	0	0	0	0
II	60	50	0	0	0	0	0	0	0
II	70	42	0	0	0	0	0	0	0
II	70	5	0	0	0	0	0	0.0046384	0
II	80	50	0	0	0	0	0	0	0.0023763
II	90	35	0	0	0	0	0	0	0
II	90	5	0	0	0	0	0	0	0
III	100	5	0	0	0	0	0	0	0
III	100	65	0	0	0	0	0	0	0
III	120	5	0	0	0	0	0	0	0
III	120	72	0	0	0	0	0	0	0

III	140	5	0	0.0098108	0	0	0	0	0
III	140	80	0	0	0	0	0	0	0
III	20	5	0	0	0	0	0	0	0
III	25	22	0	0	0	0	0	0	0
III	25	5	0	0	0	0	0	0.1465269	0
III	30	25	0	0	0	0	0	0	0
III	30	5	0	0	0	0	0	0	0
III	35	26	0	0	0	0	0	0	0
III	35	5	0	0	0	0	0	0.0879161	0
III	40	15	0	0	0	0	0	0	0
III	45	5	0	0	0	0	0	0	0
III	45	5	0.0213838	0	0	0	0	0	0
III	50	40	0	0	0	0	0	0	0
III	50	5	0	0	0	0	0	0	0
III	60	40	0	0.0049054	0.6612546	0	0	0	0
III	60	5	0	0.0539592	0	0	0	0	0
III	70	37	0	0.0147161	0	0.0066523	0	0	0
III	70	5	0	0	0	0	0.0115258	0	0
III	80	40	0	0	0	0	0	0.0094028	0
III	80	5	0	0.0218017	0	0	0	0	0
III	90	49	0	0.0049054	0	0.0133046	0	0	0
III	90	5	0	0.0196215	0	0	0	0	0
IV	100	5	0	0	0	0	0	0	0
IV	100	50	0	0	0	0	0	0	0
IV	120	5	0	0	0	0	0	0	0
IV	120	67	0	0	0	0	0.0029512	0	0
IV	140	5	0	0	0	0	0	0	0
IV	140	60	0	0	0	0	0	0	0
IV	20	5	0	0	0	0	0	0	0
IV	25	5	0	0	0	0	0	0	0
IV	30	5	0	0	0	0	0	0	0
IV	35	5	0	0	0	0	0	0	0
IV	40	5	0	0	0	0	0	0	0
IV	45	5	0	0	0	0	0	0	0
IV	50	11	0	0	0	0	0	0	0
IV	50	5	0	0	0	0	0	0	0
IV	60	5	0	0	0	0	0.0059024	0	0
IV	70	5	0	0	0	0	0.0059024	0	0
IV	80	5	0	0	0	0	0	0	0
IV	80	52	0	0	0	0	0	0	0
IV	90	5	0	0	0	0	0	0	0
IV	90	50	0	0	0	0	0	0	0
V	100	5	0	0	0	0	0	0	0
V	120	5	0	0	0	0	0	0	0
V	20	5	0	0	0	0	0	0	0
V	25	5	0	0	0	0	0	0	0
V	30	5	0	0	0	0	0	0	0
V	35	5	0	0	0	0	0	0	0
V	40	5	0	0	0	0	0	0	0
V	45	5	0	0	0	0	0	0	0
V	50	5	0	0	0	0	0	0	0
V	60	5	0	0	0	0	0	0	0
V	70	5	0	0	0	0	0	0	0
V	80	5	0	0	0	0	0	0	0
V	90	5	0	0	0	0	0	0	0

Cruzeiro	isóbata	Prof	PN sp5 7U	PN SP7 7U	PN SP8 7U	PN SP9 7U	PR ALL 7R	PZ SP1 7U	PZ SP2 7U
I	100	5	0	0	0	0	0	0	0
I	100	50	0	0	0	0	0	0	0.0319019
I	130	5	0	0	0	0	0	0	0
I	130	73	0	0	0	0	0.1428423	0	0
I	20	5	0	0	0	0	0	0	0.7018415
I	25	5	0	0	0	0	1.2855803	0	0.6380377
I	30	5	0	0	0.0018305	0	0.3213951	0.0494544	0.0966724
I	40	40	0	0	0	0	0	0.0212679	0
I	40	5	0	0	0	0	1.1570222	0.0024727	0.0659306
I	50	40	0	0	0	0	0.9641852	0.0494544	0
I	50	5	0	0	0	0	0.4285268	0.020606	0
I	60	5	0	0	0	0	0.2571161	0	0
I	60	50	0	0	0	0	0.2571161	0	0.0212679
I	70	5	0	0	0	0	0.1606975	0	0
I	70	50	0	0	0	0	0	0	0
I	80	50	0	0	0	0	0	0	0
I	90	50	0	0	0	0	0	0	0.010634
II	100	42	0	0	0	0.0244408	0.3685018	0	0.1083934
II	100	5	0	0	0	0.0020108	2.6771495	1.3020871	0
II	120	5	0	0	0	0	5.1590245	0.3002551	0
II	120	60	0	0	0	0	0	0	0.0361311
II	140	5	0	0	0	0	0	0	0
II	140	80	0	0	0	0	0	0	0
II	20	18	0	0	0	0	0	0.0227397	0
II	20	5	0	0	0	0	0	1.5576695	0
II	25	20	0	0	0	0	0	0	0.3251803
II	30	20	0	0.0193764	0	0	0	0.0091597	0.0703853
II	30	5	0	0	0	0	0	0.0120908	0.0216787
II	35	30	0	0	0	0	0	0	0.0619391
II	35	5	0	0	0	0	0	0.0067171	0.1204371
II	40	25	0	0	0	0	2.8251801	0.0141059	0.1219426
II	40	5	0	0.4982156	0	0	3.9306854	0.0040303	0.0270984
II	45	40	0	0	0	0	0	0.0172726	0
II	45	5	0	0.177368	0	0	0	0.0774239	0.2322716
II	50	35	0	0	0	0.0119224	0.4493924	0	0.1189684
II	50	5	0	0	0	0	1.8425088	0	0.2005278
II	60	5	0	0.0426282	0	0	0	0.6891761	0.0541967
II	60	50	0	0	0	0	0	0.0161211	0.0903279
II	70	42	0.2582591	0	0	0.0488817	4.6676889	0.0040303	0.4877704
II	70	5	0	0	0	0	3.1936819	0	0
II	80	50	0	0.0170513	0.0450311	0	1.474007	0	0.0180656
II	90	35	0	0	0	0	0	0.0227397	0
II	90	5	0	0	0	0	3.6850175	0.0846357	0.346859
III	100	5	0	0	0	0	0	0	0
III	100	65	0	0	0	0	0	0	0
III	120	5	0	0	0	0	0	0	0
III	120	72	0	0	0	0	0	0.0026076	0
III	140	5	0	0	0	0	0	0	0
III	140	80	0	0	0	0	0	0	0
III	20	5	0	0	0	0	1.46218	0.3963588	0
III	25	22	0	0	0	0	0.6498578	0.0990897	0.0515319
III	25	5	0	0	0	0	1.7871089	0.0938745	0.0343546
III	30	25	0	0	0	0	0.2436967	0.3389911	0.0515319
III	30	5	0	0	0	0	1.2636123	0.0115894	0.1145153
III	35	26	0	0	0	0	0	0.0078229	0
III	35	5	0	0	0	0	0	0.0052152	0
III	40	15	0	0	0	0	0	0	0.0343546
III	45	5	0	0	0	0	0	0	0
III	45	5	0	0	0	0	0	0	0
III	50	40	0	0	0	0	0	0	0.0171773
III	50	5	0	0	0	0	0	0	0
III	60	40	0	0	0	0	0	0	0

III	60	5	0	0	0	0	0	0	0.0515319
III	70	37	0	0	0	0	0	0.0052152	0
III	70	5	0	0	0	0	0	0	0
III	80	40	0	0	0	0	0	0	0
III	80	5	0	0	0	0	0.090258	0	0
III	90	49	0	0	0	0	0	0	0
III	90	5	0	0	0	0	0.0812322	0	0
IV	100	5	0	0	0	0	0	0	0
IV	100	50	0	0	0	0	0	0.0017748	0
IV	120	5	0	0	0	0	0	0	0
IV	120	67	0	0	0	0	0	0	0
IV	140	5	0	0	0	0	0.0387186	0	0.0618694
IV	140	60	0	0	0	0	0.0387186	0	0
IV	20	5	0	0	0	0	0.3097486	0.0496946	0.2062314
IV	25	5	0	0	0	0	0	0.0212977	0.3299702
IV	30	5	0	0	0	0	0.1548743	0.0851907	0.4124628
IV	35	5	0	0	0	0	0	0	0.0206231
IV	40	5	0	0	0	0	0	0	0
IV	45	5	0	0	0	0	0	0	0.0471386
IV	50	11	0	0	0	0	0.0387186	0.0141984	0.0206231
IV	50	5	0	0	0	0	0	0	0.0536202
IV	60	5	0	0	0	0	0	0.0070992	0
IV	70	5	0	0	0	0	0	0	0
IV	80	5	0	0	0	0	0	0	0
IV	80	52	0	0	0	0	0	0	0
IV	90	5	0	0	0	0	0.0387186	0	0
IV	90	50	0	0	0	0	0	0	0
V	100	5	0	0	0	0	0	0	0
V	120	5	0	0	0	0	0.0174963	0.0002173	0
V	20	5	0	0	0	0	0	0	0
V	25	5	0	0	0	0	0	0	0
V	30	5	0	0	0	0	0	0	0
V	35	5	0	0	0	0	0	0	0
V	40	5	0	0	0	0	0	0	0
V	45	5	0	0	0	0	0	0	0
V	50	5	0	0	0	0	0	0	0
V	60	5	0	0	0	0	0	0	0
V	70	5	0	0	0	0	0	0	0
V	80	5	0	0	0	0	0	0	0
V	90	5	0	0	0	0	0.0174963	0.0002173	0

Cruzeiro	isóbata	Prof	RP SPP 7U	RH CAL 7R	RH SP5 7R	RH IMB 7R	RH ROB 7R	RH SET 7R	RH SP6 7R
I	100	5	0	0	0	0	0	0	0
I	100	50	0	0	0	0	0	0	0
I	130	5	0.0213571	0.0484701	0	0	0	0	0
I	130	73	0	0	0	0	0	0	0
I	20	5	0	0	0.5965148	5.8623173	0	0	0
I	25	5	0	0	0	0	0	0	0
I	30	5	0	0	0	0	3.6639483	0	0
I	40	40	0	0	0	0	0	0	0
I	40	5	0	0.0336795	0	0	0	0	0
I	50	40	0	0	0	0	3.6639483	0	0
I	50	5	0	0	0	0	0	0	0
I	60	5	0	0	0	0	0	0	0
I	60	50	0	0	0	0	0	0	0
I	70	5	0	0	0	0	0	0	0
I	70	50	0	0	0	0	0	0	0
I	80	50	0	0	0	0	0	0	0
I	90	50	0	0	0	0	0	0	0
II	100	42	0	0	0	0	0	0	0

II	100	5	0.0341339	0.5592705	0	0	0	0	0
II	120	5	0	0	0	0	0	0	0
II	120	60	0	0	0	0	0	0	0
II	140	5	0	0	0	0	0	0	0
II	140	80	0	0	0.2982574	0	0	0	0
II	20	18	0	0	0	0	0	0	0
II	20	5	0	0	0	0	0	0	0
II	25	20	0	0	0	0	0	0	0
II	30	20	0	0	0	0	0	0	0
II	30	5	0	0	0	0	0	0	0
II	35	30	0	0	0	0	0	0	1.6016692
II	35	5	0	0	0	0	0	0	3.1143568
II	40	25	0	0	0	0	0	0	0
II	40	5	0	0.2908207	0	0	0	0	0
II	45	40	0	0	0	0	0	0	0
II	45	5	0	0	0	0	0	0	0
II	50	35	0	0	0	0	0	0	0
II	50	5	0	0	0	0	0	0	0
II	60	5	0.0532488	0	0	0	0	0	0
II	60	50	0	0	0	0	0	0	0
II	70	42	0	0	0	0	0	0	0
II	70	5	0	0	0	0	0	0	0
II	80	50	0	0	0	0	0	0	0
II	90	35	0	0	0	0	0	0	0
II	90	5	0	0	0	0	0	0	0
III	100	5	0	0	0	0	0	0.0720265	0
III	100	65	0	0	0	0	0	0	0
III	120	5	0	0	0	0	0	0	0
III	120	72	0	0	0	0	0	0	0
III	140	5	0	0	0	0	0	0	0
III	140	80	0	0	0	0	0	0	0
III	20	5	0	0	0	0	0	0.6194283	0
III	25	22	0	0	0	0.1988383	0	0.743314	0
III	25	5	0.424313	0	0	0.1988383	0	0.1238857	0
III	30	25	0	0	0	0	0	0	0
III	30	5	0	0	0	0.4418628	0	0.9635552	0
III	35	26	0	0	0	0	0.1858285	0	0
III	35	5	0.0136144	0	0	0	0	0.743314	0
III	40	15	0	0	0	0	0	0.1858285	0
III	45	5	0	0	0	0	0	0	0
III	45	5	0	0	0	0	0	0.0619428	0
III	50	40	0	0	0	0	0	0	0
III	50	5	0	0	0	0	0	0.1238857	0
III	60	40	0	0	0	0	0	0	0
III	60	5	0	0	0	0	0	0.2477713	0
III	70	37	0	0	0	0	0	0.1238857	0
III	70	5	0	0	0.1156037	0	0	0	0
III	80	40	0	0	0	0	0	0	0
III	80	5	0	0	0	0	0	0	0
III	90	49	0	0	0	0	0	0	0
III	90	5	0	0	0	0	0	0.743314	0
IV	100	5	0	0	0	0	0	0	0
IV	100	50	0	0	0	0	0	0	0
IV	120	5	0	0	0	0	0	0	0
IV	120	67	0	0	0	0	0	0	0
IV	140	5	0	0	0	0	0	0	0
IV	140	60	0	0	0	0	0	0	0
IV	20	5	0	0	0	0	0	0	0

IV	25	5	0	0	0	0	0	0.0970023	0
IV	30	5	0	0	0	0	0	0.9700233	0
IV	35	5	0	0	0	0	0	0	0
IV	40	5	0	0	0	0	0	0	0
IV	45	5	0	0	0	0	0	0	0
IV	50	11	0	0	0	0	0	0	0
IV	50	5	0	0	0	0	0	0	0
IV	60	5	0	0	0	0	0	0	0
IV	70	5	0	0	0	0	0	0	0
IV	80	5	0	0	0	0	0	0	0
IV	80	52	0	0	0	0	0	0	0
IV	90	5	0	0	0	0	0	0	0
IV	90	50	0	0	0	0	0	0	0
V	100	5	0	0	0	0	0	0	0
V	120	5	0	0	0	0	0	0	0
V	20	5	0	0	0	0	0	0	0
V	25	5	0	0	0	0	0	0	0
V	30	5	0	0	0	0	0	0	0
V	35	5	0	0	0	0	0	0	0
V	40	5	0	0	0	0	0	0	0
V	45	5	0	0	0	0	0	0	0
V	50	5	0	0	0	0	0	0	0
V	60	5	0	0	0	0	0	0	0
V	70	5	0	0	0	0	0	0	0
V	80	5	0	0	0	0	0	0	0
V	90	5	0	0	0	0	0	0	0

Cruzeiro	isóbata	Prof	RP SPP 7U	RH CAL 7R	RH SP5 7R	RH IMB 7R	RH ROB 7R	RH SET 7R	RH SP6 7R
I	100	5	0	0	0	0	0	0	0
I	100	50	0	0	0	0	0	0	0
I	130	5	0.0213571	0.0484701	0	0	0	0	0
I	130	73	0	0	0	0	0	0	0
I	20	5	0	0	0.5965148	5.8623173	0	0	0
I	25	5	0	0	0	0	0	0	0
I	30	5	0	0	0	0	3.6639483	0	0
I	40	40	0	0	0	0	0	0	0
I	40	5	0	0.0336795	0	0	0	0	0
I	50	40	0	0	0	0	3.6639483	0	0
I	50	5	0	0	0	0	0	0	0
I	60	5	0	0	0	0	0	0	0
I	60	50	0	0	0	0	0	0	0
I	70	5	0	0	0	0	0	0	0
I	70	50	0	0	0	0	0	0	0
I	80	50	0	0	0	0	0	0	0
I	90	50	0	0	0	0	0	0	0
II	100	42	0	0	0	0	0	0	0
II	100	5	0.0341339	0.5592705	0	0	0	0	0
II	120	5	0	0	0	0	0	0	0
II	120	60	0	0	0	0	0	0	0
II	140	5	0	0	0	0	0	0	0
II	140	80	0	0	0.2982574	0	0	0	0
II	20	18	0	0	0	0	0	0	0
II	20	5	0	0	0	0	0	0	0
II	25	20	0	0	0	0	0	0	0
II	30	20	0	0	0	0	0	0	0
II	30	5	0	0	0	0	0	0	0
II	35	30	0	0	0	0	0	0	1.6016692
II	35	5	0	0	0	0	0	0	3.1143568
II	40	25	0	0	0	0	0	0	0

II	40	5	0	0.2908207	0	0	0	0	0
II	45	40	0	0	0	0	0	0	0
II	45	5	0	0	0	0	0	0	0
II	50	35	0	0	0	0	0	0	0
II	50	5	0	0	0	0	0	0	0
II	60	5	0.0532488	0	0	0	0	0	0
II	60	50	0	0	0	0	0	0	0
II	70	42	0	0	0	0	0	0	0
II	70	5	0	0	0	0	0	0	0
II	80	50	0	0	0	0	0	0	0
II	90	35	0	0	0	0	0	0	0
II	90	5	0	0	0	0	0	0	0
III	100	5	0	0	0	0	0	0.0720265	0
III	100	65	0	0	0	0	0	0	0
III	120	5	0	0	0	0	0	0	0
III	120	72	0	0	0	0	0	0	0
III	140	5	0	0	0	0	0	0	0
III	140	80	0	0	0	0	0	0	0
III	20	5	0	0	0	0	0	0.6194283	0
III	25	22	0	0	0	0.1988383	0	0.743314	0
III	25	5	0.424313	0	0	0.1988383	0	0.1238857	0
III	30	25	0	0	0	0	0	0	0
III	30	5	0	0	0	0.4418628	0	0.9635552	0
III	35	26	0	0	0	0	0.1858285	0	0
III	35	5	0.0136144	0	0	0	0	0.743314	0
III	40	15	0	0	0	0	0	0.1858285	0
III	45	5	0	0	0	0	0	0	0
III	45	5	0	0	0	0	0	0.0619428	0
III	50	40	0	0	0	0	0	0	0
III	50	5	0	0	0	0	0	0.1238857	0
III	60	40	0	0	0	0	0	0	0
III	60	5	0	0	0	0	0	0.2477713	0
III	70	37	0	0	0	0	0	0.1238857	0
III	70	5	0	0	0.1156037	0	0	0	0
III	80	40	0	0	0	0	0	0	0
III	80	5	0	0	0	0	0	0	0
III	90	49	0	0	0	0	0	0	0
III	90	5	0	0	0	0	0	0.743314	0
IV	100	5	0	0	0	0	0	0	0
IV	100	50	0	0	0	0	0	0	0
IV	120	5	0	0	0	0	0	0	0
IV	120	67	0	0	0	0	0	0	0
IV	140	5	0	0	0	0	0	0	0
IV	140	60	0	0	0	0	0	0	0
IV	20	5	0	0	0	0	0	0	0
IV	25	5	0	0	0	0	0	0.0970023	0
IV	30	5	0	0	0	0	0	0.9700233	0
IV	35	5	0	0	0	0	0	0	0
IV	40	5	0	0	0	0	0	0	0
IV	45	5	0	0	0	0	0	0	0
IV	50	11	0	0	0	0	0	0	0
IV	50	5	0	0	0	0	0	0	0
IV	60	5	0	0	0	0	0	0	0
IV	70	5	0	0	0	0	0	0	0
IV	80	5	0	0	0	0	0	0	0
IV	80	52	0	0	0	0	0	0	0
IV	90	5	0	0	0	0	0	0	0
IV	90	50	0	0	0	0	0	0	0
V	100	5	0	0	0	0	0	0	0
V	120	5	0	0	0	0	0	0	0
V	20	5	0	0	0	0	0	0	0
V	25	5	0	0	0	0	0	0	0
V	30	5	0	0	0	0	0	0	0

V	35	5	0	0	0	0	0	0	0
V	40	5	0	0	0	0	0	0	0
V	45	5	0	0	0	0	0	0	0
V	50	5	0	0	0	0	0	0	0
V	60	5	0	0	0	0	0	0	0
V	70	5	0	0	0	0	0	0	0
V	80	5	0	0	0	0	0	0	0
V	90	5	0	0	0	0	0	0	0

Cruzeiro	isóbata	Prof	RH SPP 7R	SK COS 7H	SP SP1 7H	SP SP1 7R	SU SPP 7U	TP SPP 7U	TH NIT 7T
I	100	5	0	0	0	0	0	0	0.0103924
I	100	50	0	0	0	0	0	0	0.0077943
I	130	5	0	0	0	0	0	0	0
I	130	73	0	0	0	0	0	0	0
I	20	5	0	6.5111896	0	0	0	0	0.0311772
I	25	5	0	22.275122	0	0	0	0	0.1428953
I	30	5	0	0.3426942	0	0	0	0	0.0844381
I	40	40	0	0.2970016	0	0	0.0298575	0	0.0233829
I	40	5	0	0.0548311	0	0	0	0	0
I	50	40	0	0.0073304	0	0	0	0	0.0844381
I	50	5	0	0.0036652	0.1047526	0	0.0248812	0	0.0909334
I	60	5	0	0	0	0	0	0	0.0025981
I	60	50	0	0.0153938	0	0	0	0	0.0077943
I	70	5	0	0	0	0	0	0	0
I	70	50	0	0	0	0	0	0	0.0064952
I	80	50	0	0	0	0	0	0	0.0155886
I	90	50	0	0	0	0	0	0	0.0051962
II	100	42	0	0	0	0	0	0	0.4442305
II	100	5	0	0	0	0	0	0	0
II	120	5	1.3918679	0	0	0	0	0	0.0135747
II	120	60	0	0	0	0	0	0	0
II	140	5	0	0	0	0	0	0	0
II	140	80	0	0	0	0	0	0	0.0634615
II	20	18	2.2437819	0	0	0	0	0	0
II	20	5	0	0	2.2646746	0	0	0	0.367639
II	25	20	0	0.2325076	0	0	0	0	0.0689323
II	30	20	0	0.0016724	0	0	0	0	0.0185109
II	30	5	0	0	0	0	0	0	0.0054299
II	35	30	0.2840547	0	0	0	0.1408073	0	0
II	35	5	0	0	0	0	0	0	0.0723983
II	40	25	0	0	0	0	0	0	0.0081448
II	40	5	0	0	0	0	0	0	0
II	45	40	0	0	0	0	0	0	0.0310278
II	45	5	0	0	0	0	0	0	0
II	50	35	0	0.0072248	0	0	0	0	0
II	50	5	0	0	0	0	0	0	0.0507692
II	60	5	0.3976766	0	0	0	0.0985651	0	0.253846
II	60	50	3.3635053	0	0	0	0	0	0.4230767
II	70	42	0.1988383	0	0	0	0	0	0
II	70	5	0	0	0	0	0	0	0.0054299
II	80	50	0.1988383	0	0	0	0	0	0.0108597
II	90	35	0	0	0	0	0	0	0.0306366
II	90	5	0.4970957	0	0	0	0	0	0
III	100	5	0	0	0	0	0	0	0
III	100	65	0	0	0	0	0	10.497425	0
III	120	5	0	0	0	0	0	0	0
III	120	72	0	0	0	0.0689772	0	0	0
III	140	5	0	0	0	0	0	0	0
III	140	80	0	0	0	0	0.0689772	0	0.024805
III	20	5	0	0	0	0.2514063	0	0	0.4748394
III	25	22	0	0	0	0	0.2759088	0	0.1984403
III	25	5	0	0	0	0	0	0	0.1630046

III	30	25	0	0	0	0	0.4138632	0	0.1063073
III	30	5	0	0	0	0	0	0	0
III	35	26	0	0	0	0	0.1379544	0	0.0566972
III	35	5	0	0.0035422	0	0	0	0	0.0070872
III	40	15	0	0	0	0	0	0	0.0106307
III	45	5	0	0	0	0	0.0689772	0	0.0637844
III	45	5	0	0	0	0	0	0	0.0318922
III	50	40	0	0	0	0	0.5518176	0	0
III	50	5	0	0	0	0	0	0	0.0141743
III	60	40	0	0	0	0	0	0	0.0354358
III	60	5	0	0	0	0	0	0	0.0141743
III	70	37	0	0	0	0	0	0	0
III	70	5	0	0	0	0	0	0	0
III	80	40	0	0	0	0	0	0	0.0318922
III	80	5	0	0	0	0	0	0	0
III	90	49	0	0	0	0	0	0	0
III	90	5	0	0	0	0	0	0	0
IV	100	5	0	0	0	0	0	0	0
IV	100	50	0	0	0	0	0	0	0
IV	120	5	0	0	0	0	0	0	0
IV	120	67	0	0	0	0	0	0	0
IV	140	5	0	0	0	0	0	0	0
IV	140	60	0	0	0	0	0	0	0
IV	20	5	0	0	0	0	0	0	0.1481525
IV	25	5	0	0.0548077	0	0	0	0	0.2190081
IV	30	5	0	0.0548077	0	0	0	0	0.1642561
IV	35	5	0	0	0	0	0	0	0.0161035
IV	40	5	0	0	0	0	0.1879853	0	0
IV	45	5	0	0	0	0	0.0469963	0	0
IV	50	11	0	0	0	0	0	0	0
IV	50	5	0	0	0	0	0	0	0
IV	60	5	0	0	0	0	0	0	0
IV	70	5	0	0	0	0	0	0	0
IV	80	5	0	0	0	0	0	0	0
IV	80	52	0	0	0	0	0.0469963	0	0
IV	90	5	0	0	0	0	0	0	0
IV	90	50	0	0	0	0	0	0	0
V	100	5	0	0	0	0	0	0	0.0105029
V	120	5	0	0	0	0	0	0	0.0070019
V	20	5	0	0	0	0	0	0	0.0140039
V	25	5	0	0	0	0	0.0517203	0	0.0280077
V	30	5	0	0	0	0	0	0	0.0140039
V	35	5	0	0	0	0	0	0	0.0630174
V	40	5	0	0	0	0	0.0517203	0	0
V	45	5	0	0	0	0	0	0	0.0455125
V	50	5	0	0	0	0	0	0	0.0455125
V	60	5	0	0	0	0	0	0	0.0700193
V	70	5	0	0	0	0	0	0	0.0070019
V	80	5	0	0	0	0	0	0	0.0070019
V	90	5	0	0	0	0	0	0	0.0070019

Cruzeiro	isóbata	Prof	TH SP7 7R	TH SP3 7R	TH SP1 7R	TH SP4 7R	TH SP8 7R	TH SP5 7R	TH SP6 7R
I	100	5	0	0	0	0	0	0	0
I	100	50	0	2.6251096	0.1852221	0	0	0	0
I	130	5	0	0.4375183	0	0.1436982	0	0	0
I	130	73	0	0.9722628	0	0	0	0.1762526	0
I	20	5	0	8.7503654	0	0	0	0.3172548	0
I	25	5	0	0	0	0.7184911	0	0	0
I	30	5	0	10.937957	0	0	0	0	0
I	40	40	0	3.5001461	0	8.9571683	0	0.1189705	0
I	40	5	0	6.1252558	0	0	0	0	0
I	50	40	0.8727451	27.344892	0	2.5147189	0.1980595	0	0

I	50	5	2.3273202	13.854745	0	0	0.2040613	0.0660947	0
I	60	5	0	0.4375183	0	0.1436982	0	0	0
I	60	50	0	4.3751827	0	0	0	0.1189705	0
I	70	5	0	0.5468978	0	0	0	0	0
I	70	50	0	6.0158762	0	0	0	4.634883	0
I	80	50	0.349098	5.6877375	0	0	0	0.1586274	0
I	90	50	0	0	0.1852221	0	0	0	0
II	100	42	0	0	0	0	0	0	0
II	100	5	0	0	0	0	0	0	0
II	120	5	0	0	0	0	0	0	0
II	120	60	0	0	0	0	0	0	0
II	140	5	0	0	0	0	0	0	0
II	140	80	0	0	0	0	0	0.0247218	0
II	20	18	0	0	0	0	0	0	0
II	20	5	0	0	0	0	0	0	0
II	25	20	0	0	2.3035326	0	0	0	0
II	30	20	0	0.2595292	0	0.3624312	0	0	0
II	30	5	0	0.2283857	0	0.6017749	0	0	0
II	35	30	0	0	0	0	0	0	0
II	35	5	0	0	0	0	0	0	0
II	40	25	0	0	0.1360888	0	0	0	0
II	40	5	0	0	15.786304	0	0	0	0
II	45	40	0	0	0	0	0	0	0
II	45	5	0	0	0	0	0	0	0
II	50	35	0	2.3674128	0	0.6115599	0	0	0
II	50	5	0	0.1141929	0	0	0	0	3.2966683
II	60	5	0	0	0	0	0	0	0
II	60	50	0	0	0	0	0	0	0
II	70	42	0	0	0	0	0	0	0
II	70	5	0	0	0	0	0	0.1483311	0
II	80	50	2.4850638	0	0	0.401817	0	0	0
II	90	35	0	0	0	0	0	0	0
II	90	5	0	0	0	0	0	0	0
III	100	5	0	0.1283968	0	0	0	0	0
III	100	65	0	4.4168498	0	0	0	0.6884303	0
III	120	5	0	0.1104212	0	0	0	0	0
III	120	72	0.0428379	7.7294871	0	0	0	0	0
III	140	5	0	0	0	0	0	0	0
III	140	80	0	0	0.01758	0	0	0	0
III	20	5	0	4.6376923	0.03516	0.2186159	0	0	0
III	25	22	4.2912055	0.2208425	1.6437258	0	0	0.6884303	0
III	25	5	0	0.441685	1.0958172	0	0	0	0
III	30	25	0	6.4044322	0	0	0	0	0
III	30	5	0	0.7361416	1.826362	0	0	0	0
III	35	26	0	0	0.01758	0	0	0	0
III	35	5	0	0	0.01758	0	0	0	0
III	40	15	0	0.1104212	0.01758	0	0	0.1376861	0
III	45	5	0	0.1104212	0	0	0	0	0
III	45	5	0	0.441685	0	0	0	0.068843	0
III	50	40	0	1.1042124	0.03516	0	0	0	0
III	50	5	0	0	0.07032	0	0	0	0
III	60	40	0	0	0	0	0	0	0
III	60	5	0	0.88337	0	0	0	0	0
III	70	37	0	0.88337	0	0	0	0	0
III	70	5	0	2.0543487	0	0	0	0	0
III	80	40	0	0.3312637	0.03516	0	0	0.068843	0
III	80	5	0	2.9445665	0	0	0	0	0
III	90	49	0	0.6625275	0	0	0	0	0
III	90	5	0	0.441685	0.07032	0	0	0	0
IV	100	5	0	0	0	0	0	0	0
IV	100	50	0	0.07035	0	0	0	0	0
IV	120	5	0	0	0	0	0	0	0
IV	120	67	0	0	0	0	0	0	0

IV	140	5	0	0.1407001	0	0	0	0	0
IV	140	60	0	0	0.0403625	0	0	0	0
IV	20	5	0	0.2814002	0	0	0	0	0
IV	25	5	0	0.1407001	0	0.2359087	0	0	0
IV	30	5	0	0	0	0	0	0	0
IV	35	5	0	0	0	0	0	0.3326465	0
IV	40	5	0	0	0.1614502	0	0	0.1247424	0
IV	45	5	0	0.07035	0	0.1179544	0	0.1455328	0
IV	50	11	0	0	0	0	0	0	0
IV	50	5	0	0	0.2018127	0	0	0.103952	0
IV	60	5	0	0	0	0	0	0.1663232	0
IV	70	5	0	0	0	0	0	0	0
IV	80	5	0	0	0	0	0	0	0
IV	80	52	0	0.07035	0	0	0	0	0
IV	90	5	0	0	0	0	0	0	0
IV	90	50	0	0	0	0	0	0.0207904	0
V	100	5	0	0	0.0902778	0.009022	0	0	0
V	120	5	0	0	0.0677083	0	0	0	0
V	20	5	0	0.3374672	0.0902778	0.2165284	0	0	0
V	25	5	0	0.1687336	0	0	0	0.1259921	0
V	30	5	0	0.3374672	0	0	0	0.1007937	0
V	35	5	0	0	0.1805555	0	0	0	0
V	40	5	0	0	0	0	0	0.0251984	0
V	45	5	0	0.2531004	0	0	0	0.0377976	0
V	50	5	0	0.2531004	0.2482638	0	0	0.0377976	0
V	60	5	0	0	0.3159722	0	0	0	0
V	70	5	0	0.0843668	0.0902778	0	0	0	0
V	80	5	0	0.0843668	0.0902778	0	0	0	0
V	90	5	0	0	0.0677083	0	0	0	0

Cruzeiro	isóbata	Prof	TH SPP 7R	TH MIC 7R	TH FRA 7T	TR FAV 7O	TY SPP 7U	CE SP6 6L	CE FUS 6D
I	100	5	0	0	0	0	0	0.0867734	0
I	100	50	0	0	0	0	0	0	0
I	130	5	0	0	0	0	0	0	0
I	130	73	0	0	0.0050165	0	0	0	0
I	20	5	0	0	0	0	0.00236	0	0.1050687
I	25	5	0	0	0	0	0.0059	0	0.2626717
I	30	5	0.3272968	0	0.2878231	0	0	0	0
I	40	40	0	0	0	0	0.0367765	0	0
I	40	5	0	0	0.1580209	0	0	0	0
I	50	40	1.8328623	0	0	0	0	0	0
I	50	5	0.0872792	0	0	0	0	0	0.1751145
I	60	5	0	0	0	0	0	0	0
I	60	50	0	0	0	0	0	0.0525343	0
I	70	5	0	0	0	0.1447429	0	0.0656679	0
I	70	50	0	0	0	0	0	0	0
I	80	50	0	0	0	0	0	0	0
I	90	50	0	0	0	0.0743232	0.0551648	0	0
II	100	42	0.0797349	0	0	0.0786824	0	0.0526607	0
II	100	5	0	0	0	0.2017498	0	0	0
II	120	5	0.3189394	0	0	0	0	0.0525343	0
II	120	60	0	0	0	0	0	0	0
II	140	5	0.0797349	0	0	0	0	0	0
II	140	80	0.1594697	0	0	0	0	0	0
II	20	18	8.0978804	0	0	0	0	0	0
II	20	5	0.4498822	0	0	0	0	0	0
II	25	20	0	0	0	0	0	0	0
II	30	20	0	0	0	0	0	0	0
II	30	5	0	0.1204112	0	0	0.0128269	0	0
II	35	30	1.3668832	0	0	0	0.0366483	0	0
II	35	5	0.5315657	0	0	0	0	0	0
II	40	25	0	0.075257	0	0	0	0	0

II	40	5	0.6378788	0.1505139	0	0	0.0160336	0	0
II	45	40	0	0	0	0	0	0	0
II	45	5	0	1.2901195	0	0	0	0	0
II	50	35	0.777901	0.1468429	0	0	0.0469277	0	0
II	50	5	0	0	0	0	0.0064135	0	0
II	60	5	0.9568183	0	0	0	0	0	0
II	60	50	2.4850638	0	0	0	0.0213782	0	0
II	70	42	0	0	0	0	0	0	0
II	70	5	0	0	0	0.3147297	0	0	0
II	80	50	0	0	0	0	0	0	0
II	90	35	0	0	0	0	0	0	0
II	90	5	0	0	0	0	0	0	0
III	100	5	0	0	0	0	0	0	0
III	100	65	0	0	0	2.6339453	0	0	0
III	120	5	0	0	0	0	0	0.1709611	0
III	120	72	0	0	0	0	0	0	0
III	140	5	0	0	0	0	0	0	0
III	140	80	0	0	0	0	0.0038686	0	0
III	20	5	0	0	0	0	0.0154743	0	0
III	25	22	0	0	0.0384378	0	0.0154743	0	0
III	25	5	0	0	0.1409386	0	0	0	0
III	30	25	0	0	0	0	0.0077372	0	0
III	30	5	0	0	0.2496116	0	0.0085969	0	0
III	35	26	0	0	0	0	0	0	0
III	35	5	0	0	0	0	0	0	0
III	40	15	0	0	0.0064063	0	0	0	0
III	45	5	0	0	0	0	0.0038686	0	0
III	45	5	0	0	0	0	0	0	0
III	50	40	0	0	0	0	0.0077372	0	0
III	50	5	0	0	0	0	0	0	0
III	60	40	0	0	0.0128126	0.0495488	0	0	0
III	60	5	0	0	0	0	0.0077372	0	0
III	70	37	0	0	0	0	0	0	0
III	70	5	0	0	0	0	0	0	0
III	80	40	0	0	0.0128126	0	0	0	0
III	80	5	0	0	0	0	0	0	0
III	90	49	0	0	0	0	0	0	0
III	90	5	0	0	0	0	0	0	0
IV	100	5	0	0	0	0	0	0	0
IV	100	50	0	0	0	0	0	0	0
IV	120	5	0	0	0	0	0	0	0
IV	120	67	0	0	0	0	0	0	0
IV	140	5	0	0	0	0	0	0	0
IV	140	60	0	0	0	0	0	0	0
IV	20	5	0	0	0.0385144	0	0.0258918	0	0
IV	25	5	0	0	0.1733149	0	0.0064729	0	0
IV	30	5	0	0.1418478	0	0	0.0064729	0	0
IV	35	5	0	0	0	0	0.3026093	0	0
IV	40	5	0	0	0	0	0.0323647	0	0
IV	45	5	0	0	0	0	0.0432299	0	0
IV	50	11	0	0	0	0	0.0097094	0	0
IV	50	5	0	0	0	0	0	0	0
IV	60	5	0	0	0	0	0	0	0
IV	70	5	0	0	0	0	0	0	0
IV	80	5	0	0	0	0	0	0	0
IV	80	52	0	0	0	0	0.0064729	0	0
IV	90	5	0	0	0	0	0	0	0
IV	90	50	0	0	0	0	0	0	0
V	100	5	0	0	0	0	0	0	0
V	120	5	0	0	0	0	0	0	0
V	20	5	0	0	0	0	0.0300254	0	0
V	25	5	0	0	0	0	0.0075063	0	0
V	30	5	0	0	0	0	0	0	0

V	35	5	0	0	0	0	0	0	0
V	40	5	0	0	0	0	0	0	0
V	45	5	0	0	0	0	0	0	0
V	50	5	0	0	0	0	0	0	0
V	60	5	0	0	0	0	0	0	0
V	70	5	0	0	0	0	0	0	0
V	80	5	0	0	0	0	0	0	0
V	90	5	0	0	0	0	0	0	0

Cruzeiro	isóbata	Prof	CE HOR 6L	CE TRI 6L	CE SP7 6D	CE SP6 6D	CE SP9 6L	CE SPP 6L	CE FUR 6L
I	100	5	0	0	0	0	0	0	0.0526607
I	100	50	0	0	0	0	0	0	0
I	130	5	0	0	0	0	0	0	0
I	130	73	0	0	0	0	0	0	0
I	20	5	0	0	0	0	0	0	0
I	25	5	0	0	0	0	0	0	0.2633033
I	30	5	0	0	0	0	0	0	0
I	40	40	0	0	0	0	0	0	0
I	40	5	0	0	0	0	0	0	0.2373622
I	50	40	0	0	0	0	0	0	0
I	50	5	0	0	0	0	0	0	0
I	60	5	0.0525343	0	0	0	0	0	0
I	60	50	0	0	0	0	0	0	0
I	70	5	0	0	0	0	0	0	0
I	70	50	0	0	0	0	0	0	0
I	80	50	0	0	0	0	0	0	0
I	90	50	0	0	0	0	0	0	0
II	100	42	0	0	0	0	0	0	0
II	100	5	0	0	0	0	0	0	0
II	120	5	0	0	0	0	0	0	0
II	120	60	0	0	0	0	0	0	0
II	140	5	0	0	0	0	0	0	0
II	140	80	0	0	0	0	0	0	0
II	20	18	0	0	0	0	0	0	0
II	20	5	0	0	0	0	0	0	0
II	25	20	0.4065611	0	0	0	0	0	0
II	30	20	0	0	0	0	0	0	0
II	30	5	0	0	0	0	0	0	0
II	35	30	0	0	0	0	0	0	0
II	35	5	0	0	0	0	0	0	0
II	40	25	0	0	0	0	0	0	0
II	40	5	0	0	0	0	0	0	0.2106426
II	45	40	0	0	0	0	0	0	0
II	45	5	0	0	0	0	0	0	0
II	50	35	0	0	0	0	0	0	0
II	50	5	0	0	0	0	0	0	0
II	60	5	0	0	0	0	0	0	0.1053213
II	60	50	0	0	0	0	0	0	0
II	70	42	0	0	0	0	0	0	0
II	70	5	0	0	0	0	0	0	0
II	80	50	0	0	0	0	0	0	0
II	90	35	0	0	0	0	0	0	0
II	90	5	0	0.0359666	0	0	0	0	0
III	100	5	0	0.1097309	0	0	0	0	0
III	100	65	0	0	0	0	0	0	0
III	120	5	0	0	0	0	0	0	0
III	120	72	0	0	0	0	0	0	0
III	140	5	0	0	0	0	0	0	0
III	140	80	0	0	0	0	0	0	0
III	20	5	0	0	0	0	0	0	0.1093985
III	25	22	0	0	0	0	0	0	0
III	25	5	0	0	0	0	0	0	0.1093985

III	30	25	0	0	0	0	0	0	0
III	30	5	0	0	0	0	0	0	0
III	35	26	0	0	0	0	0	0	0
III	35	5	0	0	0	0	0	0	0.0546992
III	40	15	0	0	0	0	0	0	0
III	45	5	0	0	0	0	0	0	0
III	45	5	0	0	0	0	0	0	0.0546992
III	50	40	0	0	0	0	0	0	0
III	50	5	0	0	0	0	0	0	0
III	60	40	0	0	0	0	0	0	9.7364627
III	60	5	0	0	0	0	0	0	0
III	70	37	0	0	0	0	0	0	0
III	70	5	0	0	0	0	0	0	0
III	80	40	0	0	0	0	0	0	0
III	80	5	0	0	0	0	0	0	0.1215538
III	90	49	0	0	0	0	0	0	0
III	90	5	0	0	0	0	0	0	0
IV	100	5	0	0	0	0	0	0	0
IV	100	50	0	0	0	0	0	0	0
IV	120	5	0	0	0.0294627	0	0	0	0
IV	120	67	0	0	0	0	0	0	0.0526607
IV	140	5	0	0	0	0	0	0	0.0526607
IV	140	60	0	0	0	0	0	0	0
IV	20	5	0	0	0	0	0	0	0.2106426
IV	25	5	0	0	0	0	0	0	0.1053213
IV	30	5	0	0	0	0	0	0	0.3159639
IV	35	5	0	0	0	0	0	0	0
IV	40	5	0	0	0	0	0	0	0
IV	45	5	0	0	0	0	0	0	0
IV	50	11	0	0	0	0	0	0	0
IV	50	5	0	0	0	0	0	0	0
IV	60	5	0	0	0	0	0	0	0
IV	70	5	0	0	0	0	0	0	0
IV	80	5	0	0	0	0	0	0	0.1053213
IV	80	52	0	0	0	0	0	0	0
IV	90	5	0	0.352502	0	0	0	0	0
IV	90	50	0	0.0363089	0.0247214	0.0342504	0	0	0.0470075
V	100	5	0	0	0	0	0	0	0.1053213
V	120	5	0	0	0	0	0	0	0
V	20	5	0	0	0	0	0	0	0.2089476
V	25	5	0	0	0	0	0.13437	0	0
V	30	5	0	0	0	0	0.13437	0	0
V	35	5	0	0	0	0	0.13437	0	0
V	40	5	0	0	0	0	0	0	0
V	45	5	0	0	0	0	0	0	0
V	50	5	0	0	0	0	0	0	0
V	60	5	0	0	0	0	0	0	0
V	70	5	0	0	0	0	0	0	0
V	80	5	0	0	0	0	0	0	0
V	90	5	0	0	0	0	0	0	0

Cruzeiro	isóbata	Prof	CE FUS 6D	CE TRI 6L	CE SP1 6L	CE SP2 6L	CE SP5 6L	CE SP9 6L	CE SPP 6L
I	100	5	0	0	0	0.065377	0	0	0
I	100	50	0	0	0	0	0	0	0
I	130	5	0	0	0	0	0	0	0
I	130	73	0	0	0	0	0	0	0
I	20	5	0	0	0	0	0	0	0
I	25	5	0	0	0	0	0	0	0
I	30	5	0	0	0	0	0	0	0
I	40	40	0	0	0	0.0472075	0	0.067185	0
I	40	5	0	0	0	0	0.0302939	0.067185	0
I	50	40	0	0	0	0	0	0	0

I	50	5	0	0	0	0.0393396	0	0.111975	0
I	60	5	0	0	0	0	0	0	0
I	60	50	0	0	0	0	0	0	0
I	70	5	0	0	0	0	0	0	0
I	70	50	0	0	0	0	0	0	0
I	80	50	0	0	0	0	0	0	0
I	90	50	0	0	0	0	0	0	0
II	100	42	0	0	0	0	0	0	0
II	100	5	0	0	0	0	0	0	0
II	120	5	0	0	0	0	0	0	0
II	120	60	0	0	0	0	0	0	0
II	140	5	0	0	0	0	0	0	0
II	140	80	0	0	0	0	0	0	0
II	20	18	0	0	0	0	0	0	0
II	20	5	0	0	0	0	0	0	0
II	25	20	0	0	0	0	0	0	0
II	30	20	0	0	0.1693375	0	0	0	0
II	30	5	0	0.0750234	0	0	0	0	0
II	35	30	0	0	0	0	0	0	0
II	35	5	0	0	0	0	0	0	0
II	40	25	0	0	0	0	0	0	0
II	40	5	0	0	0	0.0472075	0	0	0
II	45	40	0	0	0	0	0	0	0
II	45	5	0	2.9220751	0	0	0	0	0
II	50	35	0	0.045746	0	0	0	0	0
II	50	5	0	0	0	0	0	0	0
II	60	5	0.2101374	0	0	0	0	0	0
II	60	50	0	0	0	0	0	0	0
II	70	42	0	0.0437531	0	0	0	0	0
II	70	5	0.1050687	0.0437531	0	0	0	0	0
II	80	50	0	0	0	0	0	0	0
II	90	35	0	0	0	0	0	0	0
II	90	5	0	0	0	0	0	0	0
III	100	5	0.0610864	0	0	0	0	0	0
III	100	65	0	0	0	0	0	0	0
III	120	5	0	0	0	0	0	0	0
III	120	72	0	0	0	0	0	0	0
III	140	5	0	0	0	0	0	0	0
III	140	80	0	0	0	0	0	0	0
III	20	5	0	0	0	0	0	0	0
III	25	22	0	0	0	0	0	0	0
III	25	5	0	0	0	0	0	0	0
III	30	25	0	0	0	0	0	0	0
III	30	5	0.2334859	0	0	0	0	0	0
III	35	26	0	0	0	0	0	0	0
III	35	5	0	0	0	0	0	0	0
III	40	15	0	0	0.0404618	0	0	0	0
III	45	5	0.1050687	0	0	0	0	0	0
III	45	5	0	0	0	0	0	0	0
III	50	40	0	0.0943686	0	0	0	0	0
III	50	5	0	0.0943686	0	0	0	0	0
III	60	40	0	0	0	0	0	0	0
III	60	5	0	0	0	0	0	0	0
III	70	37	0	0	0	0	0	0	0
III	70	5	0	0	0	0	0	0	0
III	80	40	0	0	0	0	0	0	0
III	80	5	0	0	0	0	0	0	0
III	90	49	0	0	0	0	0	0	0
III	90	5	0	0	0	0	0	0	0.3175738
IV	100	5	0	0	0	0	0	0	0
IV	100	50	0	0	0	0	0	0	0
IV	120	5	0	0	0	0	0	0	0
IV	120	67	0	0	0	0	0	0	0

IV	140	5	0	0	0	0	0	0	0
IV	140	60	0	0	0	0	0	0	0
IV	20	5	0	0	0	0	0	0	0
IV	25	5	0	0	0	0	0	0	0
IV	30	5	0	0.081881	0	0	0	0	0
IV	35	5	0	0	0	0	0	0	0
IV	40	5	0	0	0	0	0	0	0
IV	45	5	0.0517903	0	0	0	0	0	0
IV	50	11	0	0	0	0	0	0	0
IV	50	5	0.0517903	0	0	0	0	0	0
IV	60	5	0	0	0	0	0	0	0
IV	70	5	0	0.061313	0	0	0	0	0
IV	80	5	0	0	0.352502	0	0	0	0
IV	80	52	0	0	0	0	0	0	0
IV	90	5	0	0.0517903	0	0	0	0	0
IV	90	50	0	0	0	0	0	0	0
V	100	5	0.0525343	0	0	0	0	0	0
V	120	5	0	0	0	0	0	0	0
V	20	5	0	0	0	0	0	0	0
V	25	5	0	0	0	0	0	0	0
V	30	5	0	0	0	0	0	0	0
V	35	5	0	0	0	0.0472075	0	0	0
V	40	5	0.1044738	0	0	0	0	0	0
V	45	5	0.1048976	0	0	0	0	0	0
V	50	5	0.1053213	0	0	0	0	0	0
V	60	5	0	0	0	0	0	0	0
V	70	5	0	0	0	0	0	0	0
V	80	5	0	0	0	0	0	0	0
V	90	5	0	0	0	0	0	0	0

Cruzeiro	isóbata	Prof	CT SP1 6D	CT TES 6D	DI PHY 6S	GO SPP 6L	GO SPP 6F	OX COM 6E	OX SP2 6E
I	100	5	0	0	0	0.0766583	0.0091251	0	0
I	100	50	0	0	0	0	0	0	0
I	130	5	0	0	0	0	0	0	0
I	130	73	0	0	0	0	0	0	0
I	20	5	0	0	0	0	0	0	0
I	25	5	0	0	0	0	0	0	0
I	30	5	0	0	0	0	0.0684386	0.0099835	0
I	40	40	0	0	0	0	0	0	0
I	40	5	0	0	0	0	0	0	0
I	50	40	0	0	0	0	0	0.013624	0
I	50	5	0	0	0	0	0	0	0
I	60	5	0	0	0	0	0	0	0
I	60	50	0	0.0151754	0	0	0	0	0
I	70	5	0	0	0	0	0	0	0
I	70	50	0	0	0	0	0	0	0
I	80	50	0	0	0	0	0	0	0
I	90	50	0	0	0	0	0	0	0
II	100	42	0	0	0	0	0	0	0
II	100	5	0	0	0	0	0	0	0
II	120	5	0	0.0139561	0	0	0	0	0
II	120	60	0	0	0	0	0	0	0
II	140	5	0	0	0	0	0	0	0.0495891
II	140	80	0	0	0	0	0	0	0
II	20	18	0	0	0	0	0	0	0
II	20	5	0	0	0	0	0	0	0
II	25	20	0	0	0	0	0.0598405	0	0
II	30	20	0	0	0	0	0	0	0
II	30	5	0	0.0385642	0	0	0	0	0.1085391
II	35	30	0	0	0	0	0	0	0
II	35	5	0	0	0	0	0	0	0
II	40	25	0	0.0307602	0	0	0	0	0

II	40	5	0	0	0	0	0	0	0
II	45	40	0	0	0	0	0	0	0
II	45	5	0	0	0	0	0	0	0
II	50	35	0	0.0170196	0	0	0	0	0
II	50	5	0	0	0	0	0	0	0
II	60	5	0	0	0	0	0	0	0
II	60	50	0	0.0279121	0	0	0	0	0
II	70	42	0	0	0	0	0.0282822	0	0
II	70	5	0	0	0	0	0	0	0.0361797
II	80	50	0	0.0837363	0	0	0	0	0
II	90	35	0	0	0	0	0	0	0
II	90	5	0	0.0139561	0	0	0	0	0
III	100	5	0	0	0	0	0	0	0
III	100	65	0	0	0	0	0	0	0
III	120	5	0	0	0.0305263	0	0	0	0
III	120	72	0	0	0	0	0.1976494	0	0
III	140	5	0	0	0	0	0	0	0
III	140	80	0	0	0	0	0	0	0
III	20	5	0	0.0303509	0	0	0	0	0.1111486
III	25	22	0	0	0	0	0	0	0
III	25	5	0	0	0	0	0	0	0
III	30	25	0	0	0	0	0	0	0
III	30	5	0	0	0	0	0	0	0.0823323
III	35	26	0	0	0	0	0	0	0
III	35	5	0	0	0	0	0	0	0
III	40	15	0.037015	0	0.0610526	0	0	0	0
III	45	5	0	0	0	0	0.1976494	0	0
III	45	5	0	0	0.0305263	0	0	0	0.0023775
III	50	40	0	0	0	0	0	0	0
III	50	5	0	0	0	0	0	0	0
III	60	40	0	0	0	0	0	0	0
III	60	5	0	0	0.0363192	0	0	0	0
III	70	37	0	0	0	0	0	0	0
III	70	5	0	0	0	0.2298249	0	0	0
III	80	40	0	0	0	0	0	0	0
III	80	5	0	0	0	0	0	0	0
III	90	49	0	0	0	0	0	0	0
III	90	5	0	0	0	0	0	0	0
IV	100	5	0	0	0	0	0	0	0
IV	100	50	0	0.0345588	0	0	0	0	0
IV	120	5	0	0	0.0610526	0	0	0	0
IV	120	67	0	0	0	0	0	0	0
IV	140	5	0	0	0	0	0	0	0.0010475
IV	140	60	0	0	0	0	0	0	0
IV	20	5	0	0	0	0	0	0	0
IV	25	5	0	0	0	0	0	0	0
IV	30	5	0	0	0	0	0	0	0
IV	35	5	0	0	0	0	0	0	0
IV	40	5	0	0	0	0	0	0	0
IV	45	5	0	0	0	0	0	0	0
IV	50	11	0	0	0	0	0	0	0
IV	50	5	0	0	0	0	0	0	0
IV	60	5	0	0	0	0	0	0	0
IV	70	5	0	0	0	0	0.0831481	0	0.0979435
IV	80	5	0	0	0	0	0	0	0
IV	80	52	0	0	0	0	0	0	0
IV	90	5	0	0	0	0	0	0	0
IV	90	50	0	0	0	0	0	0	0
V	100	5	0	0	0	0	0.0648651	0	0.0261887
V	120	5	0	0	0	0	0	0	0.0261887
V	20	5	0	0.1072798	0	0	1.1997473	0	0
V	25	5	0	0	0	0	0.3999158	0	0
V	30	5	0	0	0	0	0	0	0

V	35	5	0	0	0	0	0.0788235	0	0
V	40	5	0	0	0	0	0.1999579	0	0
V	45	5	0	0	0	0	0.1182352	0	0
V	50	5	0	0	0	0	0.1182352	0	0
V	60	5	0	0	0	0	0	0	0
V	70	5	0	0	0	0	0	0	0
V	80	5	0	0	0	0	0	0	0
V	90	5	0	0	0	0	0	0	0

Cruzeiro	isóbata	Prof	OX SP3 6E	OX VAR 6E	OX SCP 6E	OX SCX 6E	OX sp1 6E	OX SPP 6E	PO SP1 6F
I	100	5	0.0007545	0	0	0	0	0	0
I	100	50	0	0	0	0	0	0	0
I	130	5	0	0	0	0	0	0	0
I	130	73	0	0	0	0	0	0	0
I	20	5	0	0	0	0	0	0	0
I	25	5	0	0	0	0	0	0	0
I	30	5	0	0	0	0	0	0	0
I	40	40	0	0	0.017281	0	0	0	0
I	40	5	0	0	0.017281	0.020931	0	0	0
I	50	40	0	0	0	0	0	0	0
I	50	5	0.0117571	0.006971	0	0.0348851	0	0	0
I	60	5	0	0	0	0	0	0	0
I	60	50	0	0.0209131	0	0	0	0	0.0397462
I	70	5	0	0	0	0	0	0	0
I	70	50	0	0	0	0	0	0	0
I	80	50	0	0	0	0	0	0	0
I	90	50	0	0	0	0	0	0	0
II	100	42	0	0	0	0	0	0	0
II	100	5	0	0	0.0135044	0	0	0	0
II	120	5	0	0	0.0105334	0	0	0	0.0494906
II	120	60	0	0	0	0	0	0	0
II	140	5	0	0	0	0	0	0	0
II	140	80	0	0	0	0	0	0	0
II	20	18	0	0	0	0	0	0	0
II	20	5	0	0	0.1188643	0	0	0	0
II	25	20	0.0461815	0	0	0	0	0	0
II	30	20	0	0	0.0752389	0	0	0.083086	0
II	30	5	0.0084134	0	0.0210669	0	0	0	0
II	35	30	0	0	0	0	0	0	0
II	35	5	0.1282819	0	0	0	0	0	0
II	40	25	0	0	0	0.0599107	0	0	0
II	40	5	0	0	0	0	0.0274899	0	0
II	45	40	0	0	0	0	0	0.1054271	0
II	45	5	0	0	0	0	0	0	0
II	50	35	0	0	0	0.0547964	0	0	0
II	50	5	0	0	0	0.0599107	0	0	0
II	60	5	0.0076969	0	0	0.1198215	0.0274899	0.0368995	0
II	60	50	0	0	0	0.0599107	0	0	0
II	70	42	0	0	0	0	0.0274899	0	0
II	70	5	0	0	0	0	0.0549797	0	0
II	80	50	0	0	0	0	0.0549797	0	0.0494906
II	90	35	0	0	0	0	0	0	0
II	90	5	0	0	0.0105334	0	0	0	0.4041349
III	100	5	0	0	0.0461738	0	0	0	0
III	100	65	0	0	0	0	0	0	0
III	120	5	0	0	0	0	0	0.1949607	0
III	120	72	0	0	0	0	0	0	0
III	140	5	0	0	0	0	0	0	0
III	140	80	0	0	0	0	0	0	0
III	20	5	0	0	0	0	0	0	0
III	25	22	0	0	0	0	0	0	0
III	25	5	0	0	0.0794189	0	0	0	0

III	30	25	0	0	0	0	0	0	0
III	30	5	0	0	0	0	0	0	0
III	35	26	0	0	0	0	0	0	0.0216734
III	35	5	0	0	0	0	0	0	0
III	40	15	0	0	0.0121031	0	0	0	0
III	45	5	0	0	0	0	0	0.0498331	0
III	45	5	0	0	0.0397095	0	0	0	0
III	50	40	0	0	0	0	0	0	0
III	50	5	0	0	0	0	0	0	0
III	60	40	0	0	0	0	0	0	0
III	60	5	0	0	0	0	0	0.0750629	0
III	70	37	0	0	0	0	0	0	0
III	70	5	0	0	0	0	0	0	0.023505
III	80	40	0	0	0	0	0	0	0
III	80	5	0	0	0.0882433	0	0	0	0
III	90	49	0	0	0	0	0	0	0
III	90	5	0	0.0439267	0	0	0	0	0
IV	100	5	0	0	0	0	0	0	0
IV	100	50	0	0	0	0	0	0	0
IV	120	5	0	0	0	0	0	0	0
IV	120	67	0	0	0	0	0	0	0
IV	140	5	0	0	0	0	0	0	0
IV	140	60	0	0	0	0	0	0	0
IV	20	5	0	0	0	0	0	0	0
IV	25	5	0	0	0	0.0344905	0	0	0
IV	30	5	0	0	0	0	0	0	0
IV	35	5	0	0	0	0	0	0	0
IV	40	5	0	0	0	0	0	0.0263211	0
IV	45	5	0	0.0062439	0.0200998	0	0	0	0
IV	50	11	0	0	0	0	0	0	0
IV	50	5	0	0	0	0	0	0	0
IV	60	5	0	0	0	0	0	0	0
IV	70	5	0	0	0	0	0	0	0
IV	80	5	0	0	0	0	0	0	0
IV	80	52	0	0	0	0	0	0	0
IV	90	5	0	0.0004675	0	0	0	0	0
IV	90	50	0	0	0	0	0	0	0
V	100	5	0	0	0.0214813	0	0	0.0245662	0
V	120	5	0	0	0	0	0	0	0
V	20	5	0	0	0.085925	0	0	0	0
V	25	5	0	0	0.085925	0.1231963	0	0	0
V	30	5	0	0	0	0	0	0	0
V	35	5	0	0	0	0	0	0.1536228	0
V	40	5	0	0	0	0	0	0	0
V	45	5	0	0	0.0214813	0	0	0	0.3289131
V	50	5	0	0	0.0214813	0	0	0	0.3289131
V	60	5	0	0	0	0	0	0	0
V	70	5	0	0	0.0214813	0	0	0	0
V	80	5	0	0	0.0214813	0	0	0	0
V	90	5	0	0	0	0	0	0	0

Cruzeiro	isóbata	Prof	PO PAL 6F	PC MIC 6L	PC ROS 6L	PC SPP 6S	PC TRI 6L	PT BIP 6F	PT SP2 6D
I	100	5	0	0	0	0	0	0.0068596	0
I	100	50	0	0	0	0	0	0	0
I	130	5	0	0	0	0	0	0.0068596	0
I	130	73	0	0	0	0	0	0	0
I	20	5	0	0	0	0.0211238	0	0	0
I	25	5	0	0	0	0	0	0	0
I	30	5	0.0496827	0	0	0.1152033	0	0.1371924	0
I	40	40	0	0	0	0	0	0.0068596	0.156159
I	40	5	0	0	0	0	0	0	0.156159
I	50	40	0	0	0	0	0	0	0.7807948

I	50	5	0	0	0	0.0259433	0.0417835	0.0342981	0
I	60	5	0	0	0	0	0	0.0137192	0
I	60	50	0	0	0	0	0	0.0137192	0.156159
I	70	5	0	0.0248395	0	0	0.0313376	0.017149	0.3903974
I	70	50	0	0	0	0.0176752	0	0	0
I	80	50	0	0	0	0	0	0	0
I	90	50	0	0	0	0	0	0	0
II	100	42	0	0	0.0055792	0	0	0.0061689	0
II	100	5	0.0634495	0.0742009	0.0214583	0	0.2184771	0.0237264	0
II	120	5	0	0	0.0111583	0	0.2272162	0.0823983	0
II	120	60	0	0	0	0	0.2556182	0	0
II	140	5	0	0	0	0	0	0	0
II	140	80	0	0	0.0055792	0	0.0852061	0	0
II	20	18	0	0	0	0	0.3205013	0.1392246	0
II	20	5	0	0	0	0	0.3205013	0	0
II	25	20	0	0	0	0	0	0.0522092	0
II	30	20	0	0	0	0	0.06455	0	0
II	30	5	0	0	0	0.0665392	0	0	0
II	35	30	0	0	0	0	0.3245945	0	0
II	35	5	0	0	0	0	0.2840202	0.3204377	0
II	40	25	0	0	0.0055792	0.0460813	0.1988141	0	0.2634721
II	40	5	0	0	0	0	0.1704121	0	0
II	45	40	0	0	0	0	0.1622973	0	0
II	45	5	0	0	0	0	0	0	0
II	50	35	0.0301772	0	0	0.0442433	0.5195491	0	0
II	50	5	0	0	0.0055792	0	0.0852061	0	0
II	60	5	0	0	0	0	1.5905131	0	0
II	60	50	0	0	0	0.1037733	1.3064929	0.0246755	0
II	70	42	0	0	0.0334749	0	1.0224727	0	0
II	70	5	0	0	0.0111583	0	1.4201009	0	0
II	80	50	0	0	0	0	0.5680404	0	0
II	90	35	0	0	0	0	0.1602507	0	0
II	90	5	0	0	0.0111583	0.0249192	0.6816485	0	0
III	100	5	0	0	0.0428028	0.0426906	0	0	0
III	100	65	0	0	0	0	0	0	0
III	120	5	0	0.0404656	0.0184052	0.029262	0.0219861	0	0
III	120	72	0	0	0	0	0	0	0
III	140	5	0	0	0.0122701	0.0734278	0	0	0
III	140	80	0	0	0	0.014631	0	0	0
III	20	5	0	0	0.0122701	0.15566	0.0439722	0.1152141	0
III	25	22	0	0	0	0.0734278	0.3957502	0	0
III	25	5	0	0.0404656	0	0	0.2198612	0.3456422	0
III	30	25	0	0	0	0	0.1319167	0	0
III	30	5	0	0	0	0	0.0977161	0.3840469	0
III	35	26	0	0	0.0061351	0	0.0219861	0.1152141	0
III	35	5	0	0	0	0.031132	0.0879445	0.1152141	0
III	40	15	0	0	0	0.014631	0.0439722	0	0.1813234
III	45	5	0	0	0	0	0.0219861	0	0
III	45	5	0	0	0	0	0.0219861	0	0
III	50	40	0	0	0	0.0734278	0	0	0
III	50	5	0	0	0.0122701	0	0.0439722	0	0
III	60	40	0	0	0	0	0.0439722	0	0
III	60	5	0	0	0.0122701	0	0.0439722	0	0
III	70	37	0	0	0.0184052	0.0367139	0.0219861	0	0.3626468
III	70	5	0	0	0.0071338	0.0905	0.0511305	0.0334925	0.2108411
III	80	40	0	0	0	0.0367139	0.0219861	0	0
III	80	5	0	0	0.0136335	0	0	0	0
III	90	49	0.0404286	0	0	0	0.1319167	0	0
III	90	5	0	0	0	0	0	0	0.3626468
IV	100	5	0	0	0.0052831	0	0	0.032417	0
IV	100	50	0	0	0	0	0	0	0
IV	120	5	0	0	0.0105662	0.0305263	0	0.0972511	0
IV	120	67	0	0	0.0052831	0.0305263	0	0	0

IV	140	5	0	0	0	0.305263	0	0.0648341	0
IV	140	60	0	0	0	0.1526315	0.0235635	0	0
IV	20	5	0	0	0	0	0	0	0
IV	25	5	0	0	0	0	0	0.3241703	0
IV	30	5	0	0.0284801	0	0	0	0	0
IV	35	5	0	0	0	0	0.0471269	0	0
IV	40	5	0	0	0	0	0	0	0
IV	45	5	0	0.0142401	0.0052831	0	0.0235635	0	0
IV	50	11	0	0	0	0	0.0471269	0	0
IV	50	5	0	0	0	0	0.0235635	0	0.2103992
IV	60	5	0	0	0.0105662	0	0	0	0
IV	70	5	0	0	0	0.0180308	0	0	0
IV	80	5	0	0	0	0.1221052	0.0471269	0	0
IV	80	52	0	0	0	0.0305263	0	0	0
IV	90	5	0.0272962	0	0	0.1221052	0	0	0
IV	90	50	0	0	0	0	0.0235635	0	0
V	100	5	0	0	0	0	0	0.0198047	0
V	120	5	0	0	0	0	0	0	0
V	20	5	0.1548162	0	0	0.2955431	0	0	0
V	25	5	0.2322243	0	0	0.0492572	0	0	0
V	30	5	0	0	0	0.0492572	0.0638388	0	0
V	35	5	0.0774081	0	0	0.1970287	0.1276777	0	0
V	40	5	0	0	0	0.0492572	0	0	0
V	45	5	0.0774081	0	0	0.0492572	0.1276777	0	0
V	50	5	0.0774081	0.0142401	0	0	0.1276777	0	0
V	60	5	0	0	0	0	0	0	0
V	70	5	0	0	0	0.0738858	0	0.0594142	0
V	80	5	0	0	0	0.0738858	0	0.0594142	0
V	90	5	0	0	0	0	0	0	0

Cruzeiro	isóbata	Prof	PT SPP 6S	SV MIT 6D	SC SPP 6F	DN SPP 6L	GM G10 6L	KA SPP 6L	PK SPP 6E
I	100	5	0	0	0	0	0	0	0
I	100	50	0	0	0	67.176299	0.00281	0	0
I	130	5	0	0	0	0.0378139	0.0343443	0	0
I	130	73	0	0	0	0.8278128	0.0446263	0	0.0323215
I	20	5	0	0	0	0	0.0498038	0	0
I	25	5	0	0	0	0	0.088057	0	0
I	30	5	0.0264451	0	0.0385393	0	0.1076954	0	0
I	40	40	0.007052	0	0	0	0.0378347	0	0
I	40	5	0.0387861	0	0.1695731	0	0.0485866	0	0
I	50	40	0	0	0	0.0945348	0.1036425	0	0
I	50	5	0.0058767	0	0	0.0630232	0.0292766	0	0
I	60	5	0	0	0	0	0.0377544	0	0
I	60	50	0	0	0.0054409	0	0.0366662	0	0
I	70	5	0.008815	0	0	0	0.0349956	0	0
I	70	50	0	0	0	0	0.0688975	0	0
I	80	50	0	0	0	0	0.0255494	0	0
I	90	50	0	0	0	0	0.0343499	0	0
II	100	42	0.0212541	0	0.1382857	0	0.0687261	0	0
II	100	5	0.0034952	0	0	0.0871006	0.1344749	0	0
II	120	5	0.0328368	0	0	0.0756522	0.0498753	0	0
II	120	60	0.0212541	0	0	0	0.0332882	0	0
II	140	5	0.0383096	0.2744871	0.0737524	0.2185008	0.0404489	0	0
II	140	80	0.0212541	0	0	0	0.0262159	0	0
II	20	18	0	0	0	1.5332973	0.1852058	0	0
II	20	5	0.9593642	0	0	2.169713	0.6478426	0	0
II	25	20	0	0	0	0.5749865	0.1439368	0	0
II	30	20	0.1492582	0.6238343	0.1436735	0.0593517	0.0340268	0	0
II	30	5	0.0425082	0	0.0085848	0.0148475	0.1927401	0	0
II	35	30	0	0	0	1.4898698	0.1677093	0	0
II	35	5	1.149288	0	0	4.8530018	0.3303317	0	0
II	40	25	0.0212541	0	0.0138286	0.0163876	0.158167	0	0

II	40	5	0.0850164	0	0.2212572	0.2809297	0.2831035	0	0
II	45	40	0.060726	0	0	0.2809297	0.130016	0	0
II	45	5	0	0	0	0.5618593	0.0937856	0	0
II	50	35	0	0	0.1079303	0.0574138	0.0680159	0	0
II	50	5	0.1495913	0	0.0221257	0	0.0237573	0	0
II	60	5	0.0425082	0	0	0.7449349	0.2221768	0	0
II	60	50	0.0766192	0	0	0.3373041	0.0547023	0	0
II	70	42	0.1700329	0	0	1.902277	0.292345	0	0
II	70	5	0.1700329	0	0	4.2121847	0.161862	0	0.0031707
II	80	50	0.0425082	0	0	0.8152616	0.0179803	0	0
II	90	35	0	0	0	0.6381509	0.2505771	0	0
II	90	5	0.0212541	0	0.0885029	0.0524402	0.0613937	0	0
III	100	5	0	0	0.0071387	0	0.0585703	0	0
III	100	65	0	0	0.689772	0	0	0	0
III	120	5	0	0	0.1587069	0	0.1812744	0	0
III	120	72	0	0	0	0	0.0758324	0	0
III	140	5	0	0	0.1587069	0	0.0379009	0	0
III	140	80	0	0	0.0020464	0	0.0249108	0	0
III	20	5	0.0218794	0	0.1846157	0	0.6430285	0	0
III	25	22	0.1093969	0	0	0	0.0707061	0	0
III	25	5	0	0	0	0	0.1459414	0	0
III	30	25	1.1709142	0	0	0	0.0379869	0	0
III	30	5	0	0	0.1417341	0	0.0268186	0	0
III	35	26	0	0	0	0	0.008205	0	0
III	35	5	0	0	0.0765364	0	0.0493716	0	0
III	40	15	0.0218794	0	0.0637804	0	0.0371666	0	0
III	45	5	0.0109397	0	0	0	0.1048691	0	0.0812322
III	45	5	0	0	0.1913411	0	0.0533201	0	0
III	50	40	0.0334513	0	0.0637804	0	0.0293553	0	0
III	50	5	0	0	0.0637804	0	0.09756	0	0
III	60	40	0.0218794	0	0	0	0.0345373	0	0
III	60	5	0.0218794	0	0	0	0.1802323	0	0
III	70	37	0.0109397	0	0	0	0.0459583	0	0
III	70	5	0	0	0	0	0.0149835	0	0
III	80	40	0	0	0	0	0	0	0
III	80	5	0	0	0	0	0.091505	0	0
III	90	49	0	0	0	0	0.0178096	0	0
III	90	5	0	0	0.1913411	0	0.043257	0	0
IV	100	5	0.0090154	0	0	0	0.0312148	0	0
IV	100	50	0.0090154	0	0.0018219	0	0.0543394	0	0
IV	120	5	0	0	0	0	0.067331	0	0
IV	120	67	0	0	0	0.0047113	0.0169259	0	0
IV	140	5	0.0090154	0	0	0	0.0287774	0	0
IV	140	60	0	0	0.0018219	0	0.0194391	0	0
IV	20	5	0.1081847	0	0	0	0.1242375	0	0
IV	25	5	0.0360616	0	0.1703474	0	0.0710028	0	0
IV	30	5	0.0180308	0	0	0	0.138025	0	0
IV	35	5	0	0	0	0.0186246	0.043385	0	0
IV	40	5	0.0180308	0	0	0	0.1398673	0	0
IV	45	5	0	0	0	0.0261132	0.0203905	0	0
IV	50	11	0.0180308	0	0	0	0.0583174	0	0
IV	50	5	0	0	0	0	0.0371124	0	0
IV	60	5	0	0	0	0	0	0	0
IV	70	5	0	0	0	0	0.0630378	0	0
IV	80	5	0.0360616	0	0	0	0.0233665	0	0
IV	80	52	0	0	0	0	0.1643865	0	0
IV	90	5	0.0090154	0	0	0	0.0132988	0	0
IV	90	50	0	0	0	0	0.0273056	0	0
V	100	5	0.4784278	0	0.0765364	0.1193986	0.1105773	0.0140729	0
V	120	5	0	0	0.0765364	0.080953	0.0482789	0	0
V	20	5	0.2046755	0	0	0	0.0670038	0	0
V	25	5	0	0	0.0023447	0	0.1214648	0	0
V	30	5	0	0	0	0	0.0833918	0	0

V	35	5	0.2558443	0	0	0.1167291	0.0611966	0	0
V	40	5	0	0	0	0	0.3646536	0	0
V	45	5	0.1023377	0	0	0.4831784	0.1305522	0	0
V	50	5	0.1023377	0	0	0.4831784	0.0161651	0	0
V	60	5	0.0511689	0	0	0	0.0954284	0	0
V	70	5	0.0511689	0	0	0	0.0636495	0	0
V	80	5	0	0	0	0	0	0	0
V	90	5	0	0	0	0.080953	0.0782997	0	0

Cruzeiro	isóbata	Prof	PN SP1 6E	PY SPP 6D	PY SPP 6E	TO TER 6L	CI LIA 2E	CI LIA 2S	YA SP1 1S
I	100	5	0	0	0	0.03152	0	0	0
I	100	50	0	0	0	0.4911856	0.0357102	0.2661335	0
I	130	5	0	0	0	0	0.0422556	0	0
I	130	73	0	0	0	0	0.1513034	0	0
I	20	5	0	0	0	0	0.9877229	0.4938614	0
I	25	5	0	0	0	0	0.2566348	0	0
I	30	5	0	0	0	0.0262667	0.171878	0.1122412	0.0039069
I	40	40	0	0	0.0310189	0	0.0953308	0	0
I	40	5	0	0	0	0	0.3756597	0	0
I	50	40	0	0	0	0.0525333	0.2388456	0	0
I	50	5	0	0	0	0	0.2564747	0.1646205	0
I	60	5	0	0	0	0	0.1518072	0	0
I	60	50	0	0	0	0.03152	0.2674562	0	0.000934
I	70	5	0	0	0	0	0.2735346	0	7.513E-05
I	70	50	0	0	0	0	0.1046934	0	0
I	80	50	0	0	0	0	0.2254296	0	0
I	90	50	0.0126504	0	0	0.0105067	0.1571622	0	0
II	100	42	0	0	0.0310189	0	0.0580019	0	7.756E-05
II	100	5	0	0	0	0	0.0914623	0.0743614	0
II	120	5	0	0	0	0.0480341	0.0994318	0	0.0192684
II	120	60	0	0	0	0.01171	0.3205858	0.3093434	0
II	140	5	0	0	0	0.01171	0.0773358	0	0
II	140	80	0	0	0	0.02317	0.0583645	0	0.0063225
II	20	18	0	0	0.3500318	0	0	0	0
II	20	5	0	0	0	0	0	0	0
II	25	20	0	0	0	0	0.2551565	1.6240527	0
II	30	20	0	0	0.0704976	0	0.1387559	0	0
II	30	5	0	0	0.0620379	0	0.185606	0.0464015	0
II	35	30	0	0	0	0	0.047444	0	0
II	35	5	0	0	0	0	0.1107028	0.7733584	0
II	40	25	0	0	0.2171325	0	0.4157104	0	0.000934
II	40	5	0	0.1240757	0	0	0.1160038	0	0
II	45	40	0	0	0	0	2.3200753	0	0
II	45	5	0	0	0	0	1.1600376	0	0
II	50	35	0	0	0	0.0142805	0.0227665	0.0565872	0.0006854
II	50	5	0.0126504	0	0	0	0.0167509	0.0696023	0.0130194
II	60	5	0	0	0	0	0.0996325	0.0773358	0
II	60	50	0	0	0	0	0.3093434	0	0
II	70	42	0	0	0	0	0	0	0
II	70	5	0	0	0	0	0.0830271	0.4640151	0
II	80	50	0	0	0	0	0.072559	0.0332108	0.0927293
II	90	35	0	0	0	0	0.054165	0	0
II	90	5	0	0	0	0	0	0	0
III	100	5	0	0	0	0	0	0	0
III	100	65	0	0	0	0	0	0	0
III	120	5	0	0	0	0	0	0	0.0112399
III	120	72	0	0	0	0	0	0	0
III	140	5	0	0	0	0	0	0	0
III	140	80	0	0	0	0	0	0	0
III	20	5	0	0	0	0.2449854	0.1838617	0	0
III	25	22	0	0	0	0	0.0489974	0	0
III	25	5	0	0	0	0	0.1323584	0.1548817	0

III	30	25	0	0	0	0	0.4036354	0	0
III	30	5	0	0	0	0.0116452	0.1147272	0	0
III	35	26	0	0	0	0	0.1588212	0	0
III	35	5	0	0	0	0	0.112563	0.1155967	0
III	40	15	0	0	0	0	0.139597	0.0608341	0
III	45	5	0	0	0	0	0.0196387	0	0.0001551
III	45	5	0	0	0	0.0052403	0.3875033	0	0
III	50	40	0	0	0	0	0.2506504	0	0
III	50	5	0	0	0	0	0	0	0
III	60	40	0	0	0	0.031442	0.0466608	0	0.0003102
III	60	5	0	0	0	0	0	0	0
III	70	37	0	0	0	0.0104807	0	0	0
III	70	5	0	0	0	0	0	0	0
III	80	40	0	0	0	0	0	0	0
III	80	5	0	0	0	0	0	0	0
III	90	49	0	1.2597409	0	0	0	0	0
III	90	5	0	0	0	0	0	0	0
IV	100	5	0	0	0	0.0109098	0.3523027	0	0
IV	100	50	0	3.4292946	0	0	0.2067863	0	7.756E-05
IV	120	5	0	0	0	0.0109098	0.2603976	0	0
IV	120	67	0	0	0	0	0.2067863	0	0
IV	140	5	0	0	0	0	0.0842463	0	0
IV	140	60	0	0	0	0	0.1072225	0	0
IV	20	5	0	0	0	0	0	0	0
IV	25	5	0	0	0	0	0	0	0
IV	30	5	0	0	0	0	0	0	0
IV	35	5	0	0	0	0	0	0	0
IV	40	5	0	0	0.0620379	0	0	0	0
IV	45	5	0	0	0.0310189	0	0.0082235	0.2067587	0
IV	50	11	0	0	0	0	0	0	0
IV	50	5	0	0	0	0	0.0088803	0	0
IV	60	5	0	0	0	0	0	0	0
IV	70	5	0	0	0	0	0.4288902	0	0
IV	80	5	0	0	0	0	0.5207952	0	0
IV	80	52	0	0	0	0.0036366	0.2221039	0	0
IV	90	5	0	0	0	0	0.1991276	0	0
IV	90	50	0	0	0.0310189	0.018183	0.3216676	0	0
V	100	5	0	0	0	0.0177472	0.1560161	0	0
V	120	5	0	0	0	0.0532416	0.05572	0	0
V	20	5	0	0	0	0	0.3120323	0	0
V	25	5	0	0	0.1240757	0	0.3343203	0	0
V	30	5	0	0	0.0620379	0.0236629	0	0	0
V	35	5	0	0	0	0.0236629	0.3120323	0	0
V	40	5	0	0	0	0	0.1560161	0	0
V	45	5	0	0	0	0	0.1560161	0	0
V	50	5	0	0	0	0	0.3788963	0	0
V	60	5	0	0	0	0	0.2451682	0	0
V	70	5	0	0	0	0	0	0	0
V	80	5	0	0	0	0	0.05572	0	0
V	90	5	0	0	0	0.0532416	0.05572	0	0

Cruzeiro	isóbata	Prof	YA SP2 1R	DI FIB 8S	DI SPC 8S	OC OCT 8S	SOMA	MO GO1 4S	TC SPP 1R
I	100	5	0	0	0.0084608	0	0.0084608	0.0237104	0.1486464
I	100	50	0	0	0	0	0	0.0373155	0
I	130	5	0	0	0	0	0	0.083639	0
I	130	73	0	0.4441886	0	0	0.4441886	0.0498194	0
I	20	5	0	0	0	0	0	0.053162	0
I	25	5	0	0	0	0	0	0.6277272	0
I	30	5	0.0498133	0	0	0	0	0.0169105	0
I	40	40	0	0	0	0.0095331	0.0095331	0.0262533	0.0247744
I	40	5	0	0	0	0	0	0.05654	0
I	50	40	0	0	0	0	0	0.1855771	0

I	50	5	0	0.0141013	0	0	0.0141013	0.022632	0
I	60	5	0	0	0	0	0	0.0201193	0.0247744
I	60	50	7.492E-05	0.0084608	0	0	0.0084608	0.071991	0
I	70	5	0.0526871	0	0	0	0	0.0425086	0.092904
I	70	50	0	0	0	0	0	0.0599759	0
I	80	50	0	0	0	0	0	0	0
I	90	50	0	0	0	0	0	0.0808763	0
II	100	42	0	0	0	0	0	0.0644949	0.0247744
II	100	5	0.0666469	0	0	0	0	0.1492789	0.0635241
II	120	5	0	0	0	0	0	0.0611026	0.0247744
II	120	60	0.0018615	0	0	0	0	0.2559733	0
II	140	5	0.0010083	0	0	0	0	0.1445511	0
II	140	80	0.0003878	0	0	0	0	0.1132822	0
II	20	18	0	0	0	0	0	0	0
II	20	5	0	0.0399984	0	0	0.0399984	0	0
II	25	20	0	0.0599976	0	0	0.0599976	0.237868	0
II	30	20	6.83E-05	0.0322232	0	0	0.0322232	0.0761911	0
II	30	5	0	0	0	0	0	0.0903599	0
II	35	30	0	0.1893801	0	0	0.1893801	0	0
II	35	5	0	0.0236304	0	0	0.0236304	0.2434936	0
II	40	25	0	0	0	0	0	0.0307698	0.3220672
II	40	5	0	0.0141782	0.0466608	0	0.0608391	0.3627887	0
II	45	40	0	0	0	0	0	0.0562075	0
II	45	5	0	0	0	0	0	0.1472357	1.6545723
II	50	35	0.0300693	0	0	0	0	0.0120752	0
II	50	5	0	0	0	0	0	0.0122487	0.0743232
II	60	5	0	0.0141782	0	0	0.0141782	0.0408673	0.247744
II	60	50	0	0	0	0	0	0.1032247	0
II	70	42	0	0	0	0	0	0.6998902	0.3963905
II	70	5	0	0	0	0	0	0.1857603	1.3873666
II	80	50	0	0.0141782	0	0	0.0141782	0.0484036	0
II	90	35	0	0	0	0	0	0	0
II	90	5	0	0	0	0	0	0.0711433	0.6936833
III	100	5	0	0	0	0	0	0.0942992	0
III	100	65	0	0	0	0	0	0	0
III	120	5	0.0002327	0	0	0	0	0.1050379	0
III	120	72	0	0	0	0	0	0.136438	0
III	140	5	0	0	0	0	0	0.0791189	0.0495488
III	140	80	0	0	0	0	0	0.0991186	0.0247744
III	20	5	0	1.428361	0	0	1.428361	0.0848619	0.247744
III	25	22	0	0.0170043	0	0	0.0170043	0.0340265	0
III	25	5	0	0	0	0	0	0.0507537	0
III	30	25	0	0.2720688	0	0	0.2720688	0.1289994	0
III	30	5	0	0.0188937	0	0	0.0188937	0.0637212	0
III	35	26	0	0.1503691	0	0	0.1503691	0	0
III	35	5	0	0	0	0	0	0.0184903	0
III	40	15	0	0.0255064	0	0	0.0255064	0.0594009	0
III	45	5	0	0.0765193	0	0	0.0765193	0.1828593	0.0247744
III	45	5	0	0	0	0	0	0.0335268	0.0247744
III	50	40	0	0.0340086	0	0	0.0340086	0.0788906	0
III	50	5	0	0	0	0	0	0.0690579	0
III	60	40	0	0	0	0	0	0.1260249	0
III	60	5	0	0	0	0	0	0.1138582	0
III	70	37	0	0	0	0	0	0.2310655	0.0495488
III	70	5	0	0	0	0	0	0.0276115	0
III	80	40	0	0.0170043	0	0	0.0170043	0.1834208	0
III	80	5	0	0	0	0	0	0.0365549	0.0550542
III	90	49	0	0	0	0	0	0.2662222	0
III	90	5	0	0	0	0	0	0.0456403	0.2972928
IV	100	5	0	0	0	0	0	0.0818181	0
IV	100	50	0	0	0	0	0	0.2747018	0.0247744
IV	120	5	0	0	0	0	0	0.0922517	0.1486464
IV	120	67	0	0	0	0	0	0.1101321	0

IV	140	5	0	0	0	0	0	0.0856563	0.2972928
IV	140	60	0	0.0233304	0	0	0.0233304	0.0946627	0.0990976
IV	20	5	0	0	0	0	0	0.2615946	0
IV	25	5	0	0.0933217	2.181389	0	2.2747107	0.0828286	0
IV	30	5	0	0.0466608	0	0	0.0466608	0.1384877	0
IV	35	5	0	0.0933217	0	0	0.0933217	0.1119311	0.0145464
IV	40	5	0	0.0233304	0	0	0.0233304	0.1116207	0
IV	45	5	0	0.0233304	0	0	0.0233304	0.0227962	0
IV	50	11	0	0.058326	0	0	0.058326	0.244274	0
IV	50	5	0	0.0116652	0	0	0.0116652	0.0509334	0
IV	60	5	0	0	0	0	0	0.109905	0.0495488
IV	70	5	0	0	0	0	0	0.1404479	0
IV	80	5	0	0	0	0	0	0.119454	0
IV	80	52	0	0.0116652	0	0	0.0116652	0.0770922	0
IV	90	5	0	0	0	0	0	0.0912366	0.0495488
IV	90	50	0	0	0	0	0	0.1383405	0
V	100	5	0	0	0	0	0	0.0285737	0
V	120	5	0	0	0	0	0	0.0147722	0
V	20	5	0	0.0422646	0	0	0.0422646	0.2900923	0
V	25	5	0	0	0	0	0	0.2649942	0.4459393
V	30	5	0	0	0	0	0	0.2022869	0
V	35	5	0	0	0	0	0	0.096405	0
V	40	5	0	0.0211323	0	0	0.0211323	0.1581328	0.7432321
V	45	5	0	0.0211323	0	0	0.0211323	0	0.7432321
V	50	5	0	0.0211323	0	0	0.0211323	0.1547898	0
V	60	5	0	0	0	0	0	0.0895738	0
V	70	5	0	0	0	0	0	0.0432397	0
V	80	5	0	0	0	0	0	0.0597124	0
V	90	5	0	0	0	0	0	0.0488241	0

Cruzeiro	isóbata	Prof	SOMA	EB TRI 3S	HR ADR 3S	CY ANN 1S
I	100	5	0.1486464	0	0.0175156	0
I	100	50	0	0	0	0
I	130	5	0	0	0	0
I	130	73	0	0	0	0
I	20	5	0	0	0	0
I	25	5	0	0	0	0
I	30	5	0	0	0	0
I	40	40	0.0247744	0	0	0
I	40	5	0	0	0	0
I	50	40	0	0	0	0
I	50	5	0	0	0.0291927	0
I	60	5	0.0247744	0	0	0
I	60	50	0	0	0	0
I	70	5	0.092904	0	0	0
I	70	50	0	0	0	0
I	80	50	0	0	0	0
I	90	50	0	0	0	0
II	100	42	0.0247744	0	0	0
II	100	5	0.0635241	0	0	0
II	120	5	0.0247744	0	0	0
II	120	60	0	0	0	0
II	140	5	0	0	0	0
II	140	80	0	0	0	0
II	20	18	0	0	0	0
II	20	5	0	0	0	0
II	25	20	0.0208568	0	0	0.0208568
II	30	20	0	0	0	0
II	30	5	0	0	0.1152646	0
II	35	30	0.002576	0	0	0.002576
II	35	5	0	0	0	0
II	40	25	0.3221875	0	0.1152646	0.0001202

II	40	5	0	0	0	0
II	45	40	0	0	0	0
II	45	5	1.6545723	0	0	0
II	50	35	0	0	0	0
II	50	5	0.0743232	0	0	0
II	60	5	0.247744	0	0	0
II	60	50	0	0	0	0
II	70	42	0.3963905	0	0	0
II	70	5	1.3873666	0	0	0
II	80	50	0	0	0	0
II	90	35	0	0	0	0
II	90	5	0.6936833	0	0	0
III	100	5	0	0	0	0
III	100	65	0	0	0	0
III	120	5	0	0	0	0
III	120	72	0	0	0	0
III	140	5	0.0495488	0	0	0
III	140	80	0.0247744	0	0	0
III	20	5	0.247744	0.0721484	0.2886623	0
III	25	22	0	0	0	0
III	25	5	0	0	0	0
III	30	25	0	0	0	0
III	30	5	0	0	0.2565887	0
III	35	26	0	0	0	0
III	35	5	0	0	0	0
III	40	15	0	0	0.0432993	0
III	45	5	0.0247744	0	0	0
III	45	5	0.0247744	0	0	0
III	50	40	0	0	0	0
III	50	5	0	0	0	0
III	60	40	0	0	0	0
III	60	5	0	0	0.0384215	0
III	70	37	0.0495488	0	0	0
III	70	5	0	0	0	0
III	80	40	0	0	0	0
III	80	5	0.0550542	0	0	0
III	90	49	0	0	0	0
III	90	5	0.2972928	0	0	0
IV	100	5	0	0	0	0
IV	100	50	0.0247744	0	0	0
IV	120	5	0.1486464	0	0	0
IV	120	67	0	0	0	0
IV	140	5	0.2972928	0	0	0
IV	140	60	0.0990976	0	0	0
IV	20	5	0	0	0	0
IV	25	5	0	0.0721484	0	0
IV	30	5	0	0.0721484	0	0
IV	35	5	0.0145464	0	0	0
IV	40	5	0	0	0.056269	0
IV	45	5	0	0	0	0
IV	50	11	0	0	0.0140672	0
IV	50	5	0	0	0	0
IV	60	5	0.0495488	0	0.0281345	0
IV	70	5	0	0	0	0
IV	80	5	0	0	0	0
IV	80	52	0	0	0	0
IV	90	5	0.0495488	0	0.0140672	0
IV	90	50	0	0	0	0
V	100	5	0	0	0	0
V	120	5	0	0	0	0
V	20	5	0	0	0	0
V	25	5	0.4459393	0	0.0281345	0
V	30	5	0	0	0	0

V	35	5	0	0	0	0
V	40	5	0.7432321	0	0	0
V	45	5	0.7432321	0	0	0
V	50	5	0	0	0	0
V	60	5	0	0	0	0
V	70	5	0	0	0	0
V	80	5	0	0	0	0
V	90	5	0	0	0	0

7.2 Dados abióticos

7.2.1 Novembro

Prof	Long	Temp	Chl-a (mg / m3)	PAR (uE/(m2.sec)	Prod (mgC/m3/h	Efic. (mgC/mg Clor-a/h)	% LUZ	ClorS: Clor F
-5.264	0	21.2726	1.199278	183.1978	68.33704	56.98182	8.422082	0.9021
-5.040	0	21.2726	0.985005	212.7874	65.19299	66.18541	9.782393	1.0984
-4.846	0	21.2726	0.905531	236.6268	66.64745	73.60041	10.87835	1.1948
-4.788	0	21.2726	0.934428	245.4917	71.3508	76.35773	11.2859	1.1578
-4.875	0	21.2726	0.998983	244.6532	76.01956	76.09693	11.24735	1.0830
-5.040	0	21.2726	1.081916	235.0695	79.10533	73.11597	10.80676	1.0000
-5.274	0	21.2726	1.170414	220.5741	80.29904	68.60738	10.14037	0.9244
-5.537	0	21.2726	1.299295	198.5316	80.23311	61.75127	9.127017	0.8327
-5.828	0	21.2726	1.427225	177.3277	78.72003	55.15601	8.152218	0.7581
-6.130	0	21.2726	1.557217	155.8842	75.50362	48.48626	7.166404	0.6948
-6.422	0	21.2726	1.702837	135.5189	71.77766	42.15181	6.230158	0.6354
-6.704	0	21.2726	1.739883	123.1799	66.66166	38.31388	5.662902	0.6218
-6.967	0	21.25524	1.601347	117.0703	58.31071	36.41354	5.382028	0.6756
-7.220	0	21.25524	1.506546	107.4866	50.36783	33.43265	4.94144	0.7181
-7.473	0	21.25524	1.402957	98.8613	43.14069	30.74983	4.544912	0.7712
-7.706	0	21.25524	1.304532	91.67353	37.19761	28.51415	4.214472	0.8294
-7.911	0	21.25524	1.184463	84.60556	31.17	26.31572	3.889539	0.9134
-8.174	0	21.25524	1.121511	75.62085	26.37919	23.52112	3.476488	0.9647
-8.378	0	21.25524	1.058454	67.47472	22.21414	20.98734	3.101989	1.0222
-8.631	0	21.25524	0.997632	60.16715	18.67007	18.71439	2.766041	1.0845
-8.836	0	21.25524	0.936659	54.05755	15.74904	16.81406	2.485167	1.1551
-9.040	0	21.25524	0.864116	49.5053	13.30577	15.39813	2.275888	1.2520
-9.225	0	21.25524	0.791198	46.03121	11.32801	14.31755	2.116175	1.3674
-9.342	0	21.25524	0.703057	44.83325	9.804089	13.94494	2.061102	1.5389
-9.391	0	21.23787	0.61702	45.43223	8.719259	14.13124	2.088638	1.7535
-9.440	0	21.23787	0.551926	46.27081	7.943365	14.39207	2.12719	1.9603
-9.556	0	21.22051	0.521145	45.19264	7.325584	14.05672	2.077624	2.0760
-9.751	0	21.22051	0.507933	42.79672	6.761353	13.3115	1.967477	2.1300
-9.985	0	21.22051	0.500935	39.80182	6.201554	12.37996	1.829794	2.1598
-10.238	0	21.20315	0.507329	35.72875	5.637984	11.11307	1.642544	2.1326
-10.521	0	21.20315	0.518451	31.41609	5.066124	9.771659	1.44428	2.0868
-10.823	0	21.20315	0.526981	27.58261	4.521122	8.579296	1.268045	2.0530
-11.125	0	21.18578	0.527817	23.57693	3.870679	7.333369	1.083893	2.0498
-11.466	0	21.18578	0.525022	20.52213	3.351322	6.383203	0.943456	2.0607
-11.719	0	21.18578	0.512976	18.14867	2.89573	5.644962	0.834342	2.1091
-11.972	0	21.18578	0.490123	16.41163	2.501919	5.104672	0.754486	2.2074
-12.119	0	21.16842	0.448983	15.59552	2.177938	4.850829	0.716967	2.4097
-12.128	0	21.16842	0.382527	16.02978	1.907242	4.985903	0.736931	2.8283
-12.138	0	21.16842	0.338917	16.47901	1.737164	5.125633	0.757583	3.1923
-12.177	0	21.16842	0.314902	16.46404	1.612607	5.120975	0.756895	3.4357
-12.275	0	21.16842	0.302641	16.02978	1.50894	4.985903	0.736931	3.5749
-12.401	0	21.15105	0.297474	15.20618	1.40697	4.729731	0.699068	3.6370
-12.518	0	21.15105	0.295155	14.29273	1.312146	4.445612	0.657074	3.6656
-12.635	0	21.15105	0.296102	13.19959	1.215677	4.105603	0.60682	3.6539
-12.752	0	21.15105	0.292331	12.35353	1.123264	3.842444	0.567924	3.7010
-12.859	0	21.15105	0.286198	11.68717	1.040379	3.635177	0.53729	3.7803
-13.025	0	21.15105	0.291923	10.58654	0.961254	3.292838	0.486691	3.7062
-13.269	0	21.15105	0.296831	9.515864	0.878566	2.959814	0.437469	3.6449

-13.581	0	21.13369	0.303239	8.482623	0.800077	2.638435	0.389968	3.5679
-13.893	0	21.13369	0.302849	7.688973	0.724288	2.391578	0.353482	3.5725
-14.185	0	21.13369	0.300435	7.022608	0.656244	2.184312	0.322848	3.6012
-14.507	0	21.11633	0.296168	6.423627	0.591745	1.998005	0.295311	3.6530
-14.790	0	21.11633	0.296125	5.78721	0.533041	1.800053	0.266053	3.6536
-15.082	0	21.11633	0.293627	5.255615	0.479994	1.634707	0.241614	3.6847
-15.365	0	21.09896	0.291722	4.753969	0.431362	1.478675	0.218552	3.7087
-15.687	0	21.09896	0.294463	4.207399	0.385354	1.308669	0.193425	3.6742
-15.990	0	21.09896	0.297927	3.720727	0.34479	1.157295	0.171052	3.6315
-16.263	0	21.09896	0.285466	3.466161	0.307765	1.078115	0.159348	3.7900
-16.468	0	21.09896	0.283163	3.136722	0.276267	0.975646	0.144203	3.8208
-16.710	0	21.09896	0.270293	2.897129	0.243567	0.901123	0.133189	4.0028
-16.925	0	21.0816	0.266687	2.642563	0.219201	0.821943	0.121486	4.0569
-17.149	0	21.0816	0.261349	2.48533	0.202032	0.773037	0.114257	4.1397
-17.383	0	21.0816	0.268254	2.343072	0.195501	0.728789	0.107717	4.0332
-17.602	0	21.0816	0.271492	2.18584	0.184583	0.679884	0.100489	3.9851
-17.841	0	21.0816	0.282525	1.983684	0.174319	0.617005	0.091195	3.8295
-18.077	0	21.0816	0.284214	1.856401	0.164109	0.577415	0.085344	3.8067
-18.300	0	21.0816	0.300005	1.669219	0.155761	0.519194	0.076738	3.6063
-18.519	0	21.0816	0.304673	1.541936	0.146122	0.479604	0.070887	3.5511
-18.753	0	21.0816	0.311442	1.414653	0.137039	0.440014	0.065035	3.4739
-18.982	0	21.0816	0.294948	1.377216	0.126347	0.428369	0.063314	3.6682
-19.262	0	21.0816	0.328363	1.107675	0.113131	0.344531	0.050923	3.2949
-19.532	0	21.0816	0.386974	0.808185	0.097277	0.251378	0.037154	2.7958
-19.775	0	21.0816	0.60121	0.403873	0.075524	0.125621	0.018567	1.7996
-19.918	0	21.0816	0.374436	0.501207	0.058373	0.155895	0.023042	2.8895
-19.932	0	21.0816	0.293466	0.486233	0.044383	0.151238	0.022353	3.6867
-19.954	0	21.0816	0.228177	0.486233	0.034509	0.151238	0.022353	4.7416
-19.977	0	21.0816	0.195526	0.448797	0.027294	0.139594	0.020632	5.5334
-19.997	0	21.0816	0.163398	0.448797	0.022809	0.139594	0.020632	6.6213
-20.010	0	21.0816	0.137704	0.441309	0.018902	0.137265	0.020288	7.8568
-20.022	0	21.0816	0.111933	0.388898	0.01354	0.120963	0.017879	9.6658
-20.033	0	21.09896	0.08855	0.41136	0.01133	0.127949	0.018911	12.2181
-20.044	0	21.09896	0.056481	0.403873	0.007095	0.125621	0.018567	19.1555
-6.081	3.23	20.89059	0.709408	112.7576	24.88045	35.07214	10.00344	1.0000
-6.363	3.23	20.89059	0.636092	107.6064	21.28993	33.4699	9.546444	1.1153
-6.646	3.23	20.89059	0.577024	102.575	18.40991	31.90492	9.100076	1.2294
-6.928	3.23	20.89059	0.538941	95.98619	16.09037	29.85554	8.515541	1.3163
-7.239	3.23	20.89059	0.51017	89.5172	14.20487	27.84342	7.941636	1.3905
-7.531	3.23	20.89059	0.502233	81.61066	12.74876	25.38418	7.240197	1.4125
-7.823	3.23	20.89059	0.505825	74.54269	11.72793	23.18576	6.613153	1.4025
-8.096	3.23	20.89059	0.5069	69.63104	10.97846	21.65804	6.177409	1.3995
-8.359	3.23	20.90796	0.48083	68.55288	10.2526	21.32269	6.081759	1.4754
-8.622	3.23	20.90796	0.430855	69.39146	9.299357	21.58352	6.156155	1.6465
-8.846	3.23	20.90796	0.402596	67.59451	8.464409	21.02459	5.996736	1.7621
-9.040	3.23	20.90796	0.377744	66.39655	7.801155	20.65199	5.890457	1.8780
-9.138	3.23	20.90796	0.354612	66.27676	7.310222	20.61472	5.87983	2.0005
-9.225	3.23	20.89059	0.34177	65.55798	6.96908	20.39115	5.816063	2.0757
-9.362	3.23	20.89059	0.337192	63.88083	6.699836	19.86949	5.667272	2.1039
-9.478	3.23	20.90796	0.335722	62.20369	6.495487	19.34784	5.518482	2.1131
-9.537	3.23	20.90796	0.33409	60.64634	6.302085	18.86344	5.38032	2.1234
-9.654	3.23	20.90796	0.335355	58.13062	6.063535	18.08095	5.157135	2.1154
-9.849	3.23	20.90796	0.341575	54.05755	5.743263	16.81406	4.795787	2.0769
-10.082	3.23	20.90796	0.342535	50.10428	5.338215	15.58443	4.445067	2.0711
-10.345	3.23	20.89059	0.342206	46.15101	4.912302	14.35481	4.094348	2.0730
-10.618	3.23	20.90796	0.342676	42.19774	4.497686	13.12519	3.743628	2.0702
-10.881	3.23	20.89059	0.337198	39.20284	4.111673	12.19365	3.477932	2.1038
-11.183	3.23	20.89059	0.333006	36.20793	3.750354	11.26212	3.212234	2.1303
-11.505	3.23	20.89059	0.329121	33.45262	3.42454	10.4051	2.967793	2.1555
-11.816	3.23	20.89059	0.325859	31.0567	3.147753	9.659877	2.755236	2.1770
-12.148	3.23	20.89059	0.319216	29.25976	2.905173	9.100957	2.595818	2.2223
-12.460	3.23	20.89059	0.312661	27.70241	2.694059	8.616558	2.457656	2.2689
-12.781	3.23	20.89059	0.312028	25.78567	2.502582	8.020375	2.28761	2.2735
-13.093	3.23	20.89059	0.311185	23.8914	2.31247	7.43118	2.119557	2.2797
-13.473	3.23	20.89059	0.309991	22.2442	2.144777	6.918837	1.973424	2.2885
-13.824	3.23	20.89059	0.318496	20.19269	2.000386	6.280735	1.791421	2.2274
-14.146	3.23	20.89059	0.324616	18.53801	1.871756	5.766063	1.644624	2.1854
-14.478	3.23	20.89059	0.318867	17.27266	1.713107	5.372489	1.532367	2.2248
-14.848	3.23	20.89059	0.33096	15.34095	1.579225	4.771649	1.360993	2.1435
-15.180	3.23	20.89059	0.339023	13.76863	1.451898	4.282593	1.221502	2.0925
-15.492	3.23	20.89059	0.352507	12.21128	1.338892	3.798195	1.08334	2.0125

-15.795	3.23	20.89059	0.366281	10.85608	1.236813	3.376676	0.963111	1.9368
-16.077	3.23	20.87323	0.370877	9.897714	1.141777	3.078585	0.878089	1.9128
-16.351	3.23	20.87323	0.372838	9.029192	1.047092	2.808441	0.801037	1.9027
-16.614	3.23	20.87323	0.356709	8.527546	0.946139	2.652408	0.756532	1.9888
-16.940	3.23	20.87323	0.33139	8.003438	0.824958	2.48939	0.710036	2.1407
-17.251	3.23	20.87323	0.315371	7.426919	0.72853	2.310069	0.658889	2.2494
-17.555	3.23	20.87323	0.311161	6.670707	0.645614	2.074857	0.591801	2.2799
-17.863	3.23	20.87323	0.301706	6.184035	0.580326	1.923483	0.548625	2.3513
-18.142	3.23	20.87323	0.290755	5.779723	0.522698	1.797724	0.512756	2.4399
-18.434	3.23	20.87323	0.288799	5.323	0.478155	1.655667	0.472237	2.4564
-18.722	3.23	20.87323	0.280128	5.060946	0.440966	1.574157	0.448988	2.5324
-18.988	3.23	20.87323	0.283986	4.634173	0.409341	1.441413	0.411127	2.4980
-19.242	3.23	20.85586	0.293205	4.207399	0.383708	1.308669	0.373265	2.4195
-19.480	3.23	20.85586	0.312153	3.7956	0.368522	1.180583	0.336732	2.2726
-19.696	3.23	20.85586	0.336683	3.451186	0.361414	1.073457	0.306177	2.1071
-19.912	3.23	20.85586	0.351976	3.264005	0.357339	1.015236	0.289571	2.0155
-20.141	3.23	20.85586	0.37501	3.001951	0.350157	0.933727	0.266322	1.8917
-20.395	3.23	20.85586	0.398378	2.73241	0.338577	0.849889	0.242409	1.7807
-20.676	3.23	20.85586	0.406668	2.530254	0.320052	0.78701	0.224475	1.7444
-20.966	3.23	20.85586	0.40844	2.320611	0.294813	0.721803	0.205876	1.7369
-21.330	3.23	20.85586	0.400796	2.125942	0.265027	0.661253	0.188606	1.7700
-21.604	3.23	20.85586	0.37519	2.051069	0.239358	0.637965	0.181963	1.8908
-21.887	3.23	20.85586	0.316571	2.148404	0.211545	0.668239	0.190598	2.2409
-22.092	3.23	20.85586	0.304605	1.968709	0.186524	0.612348	0.174657	2.3289
-22.180	3.23	20.85586	0.269714	1.998659	0.167671	0.621663	0.177314	2.6302
-3.135	6.68	21.30733	0.527583	34.77038	5.7058	10.81498	3.147963	0.6633
-3.407	6.68	21.30733	0.513979	32.73384	5.233092	10.18154	2.963584	0.6809
-3.669	6.68	21.30733	0.485915	31.77548	4.802518	9.883447	2.876818	0.7202
-3.922	6.68	21.30733	0.442076	32.13486	4.418647	9.99523	2.909355	0.7916
-4.155	6.68	21.3247	0.416122	31.29629	4.050701	9.734399	2.833434	0.8410
-4.408	6.68	21.3247	0.394012	30.21813	3.70334	9.399049	2.735822	0.8882
-4.661	6.68	21.3247	0.376877	28.90037	3.387811	8.989171	2.616518	0.9286
-4.924	6.68	21.3247	0.359452	27.58261	3.083845	8.579297	2.497213	0.9736
-5.206	6.68	21.3247	0.349954	25.90547	2.819804	8.057636	2.345372	1.0000
-5.478	6.68	21.3247	0.341037	24.34812	2.582753	7.57324	2.204376	1.0261
-5.751	6.68	21.3247	0.327528	22.82072	2.324845	7.098156	2.066092	1.0685
-6.052	6.68	21.30733	0.311169	21.86984	2.116696	6.802394	1.980003	1.1246
-6.305	6.68	21.28997	0.299494	20.85906	1.943117	6.488003	1.888491	1.1685
-6.548	6.68	21.2726	0.286017	19.96807	1.776413	6.210871	1.807825	1.2235
-6.753	6.68	21.25524	0.272476	19.44397	1.647895	6.047853	1.760375	1.2843
-6.947	6.68	21.23787	0.259259	19.1295	1.542603	5.95004	1.731904	1.3498
-7.152	6.68	21.22051	0.246526	18.85247	1.445595	5.863873	1.706823	1.4195
-7.376	6.68	21.22051	0.238377	18.57545	1.37727	5.777708	1.681743	1.4681
-7.570	6.68	21.20315	0.236302	17.99893	1.32291	5.598387	1.629547	1.4810
-7.794	6.68	21.20315	0.235084	17.44487	1.275575	5.426051	1.579385	1.4886
-8.037	6.68	21.20315	0.237481	16.69614	1.233277	5.19317	1.511598	1.4736
-8.329	6.68	21.18578	0.240586	15.85757	1.186651	4.93234	1.435677	1.4546
-8.661	6.68	21.16842	0.243338	15.04146	1.138456	4.678495	1.36179	1.4381
-8.982	6.68	21.15105	0.24711	14.16545	1.088773	4.406022	1.28248	1.4162
-9.323	6.68	21.11633	0.25365	13.19959	1.041387	4.105601	1.195035	1.3797
-9.644	6.68	21.09896	0.257544	12.376	0.991397	3.84943	1.120471	1.3588
-9.985	6.68	21.06423	0.265534	11.47004	0.94733	3.56764	1.038449	1.3179
-10.297	6.68	21.04687	0.259464	11.10316	0.896065	3.453527	1.005233	1.3488
-10.599	6.68	21.0295	0.252603	10.68388	0.839429	3.323112	0.967273	1.3854
-10.862	6.68	20.99478	0.243816	10.32449	0.782975	3.211328	0.934736	1.4353
-11.125	6.68	20.97741	0.239694	9.807867	0.73122	3.05064	0.887963	1.4600
-11.329	6.68	20.96005	0.230752	9.5533	0.68567	2.971459	0.864915	1.5166
-11.534	6.68	20.96005	0.226544	9.171451	0.646259	2.852689	0.830344	1.5448
-11.748	6.68	20.94268	0.220919	8.886934	0.610664	2.764193	0.804586	1.5841
-11.982	6.68	20.92532	0.218905	8.497597	0.578585	2.643092	0.769337	1.5987
-12.177	6.68	20.90796	0.21803	8.115747	0.550378	2.524322	0.734765	1.6051
-12.401	6.68	20.90796	0.214942	7.868668	0.526064	2.44747	0.712396	1.6281
-12.616	6.68	20.89059	0.214288	7.56169	0.504002	2.351988	0.684604	1.6331
-12.840	6.68	20.89059	0.214841	7.224763	0.482788	2.24719	0.6541	1.6289
-13.035	6.68	20.87323	0.212717	7.000146	0.463155	2.177325	0.633764	1.6452
-13.240	6.68	20.87323	0.212157	6.768041	0.446618	2.105132	0.61275	1.6495
-13.415	6.68	20.87323	0.209624	6.618296	0.431522	2.058555	0.599193	1.6694
-13.571	6.68	20.85586	0.208742	6.461063	0.419497	2.009649	0.584957	1.6765
-13.785	6.68	20.85586	0.212478	6.154086	0.406717	1.914167	0.557165	1.6470
-13.990	6.68	20.85586	0.21166	6.011828	0.395786	1.869919	0.544286	1.6534
-14.224	6.68	20.85586	0.212829	5.794698	0.383599	1.802383	0.524628	1.6443

-14.478	6.68	20.8385	0.216617	5.525156	0.372266	1.718544	0.500224	1.6155
-14.731	6.68	20.8385	0.219535	5.27059	0.359897	1.639365	0.477177	1.5941
-14.985	6.68	20.8385	0.22184	5.02351	0.346627	1.562513	0.454807	1.5775
-15.239	6.68	20.8385	0.223402	4.776431	0.3319	1.485661	0.432438	1.5665
-15.502	6.68	20.8385	0.225102	4.514377	0.316077	1.404152	0.408713	1.5547
-15.736	6.68	20.8385	0.225153	4.274785	0.29937	1.329629	0.387021	1.5543
-15.970	6.68	20.82113	0.225328	4.035192	0.28281	1.255106	0.365329	1.5531
-16.204	6.68	20.82113	0.223887	3.840524	0.267445	1.194556	0.347705	1.5631
-16.429	6.68	20.82113	0.226526	3.585957	0.252661	1.115376	0.324657	1.5449
-16.698	6.68	20.82113	0.22039	3.436212	0.235553	1.0688	0.3111	1.5879
-16.944	6.68	20.82113	0.219663	3.226569	0.220452	1.003592	0.29212	1.5931
-17.179	6.68	20.82113	0.22033	3.009438	0.206241	0.936056	0.272462	1.5883
-17.415	6.68	20.82113	0.216627	2.874668	0.193694	0.894137	0.26026	1.6155
-17.604	6.68	20.82113	0.208937	2.807282	0.182439	0.873177	0.254159	1.6749
-17.742	6.68	20.82113	0.202419	2.754871	0.173448	0.856875	0.249414	1.7289
-17.851	6.68	20.82113	0.197785	2.694973	0.165792	0.838245	0.243991	1.7694
-17.958	6.68	20.82113	0.19412	2.657537	0.16046	0.826601	0.240602	1.8028
-17.979	6.68	20.82113	0.186237	2.717435	0.157414	0.845231	0.246025	1.8791
-17.983	6.68	20.82113	0.184517	2.73241	0.156819	0.849889	0.247381	1.8966
-18.088	6.68	20.82113	0.18595	2.687486	0.155438	0.835916	0.243314	1.8820
-18.290	6.68	20.82113	0.188417	2.627588	0.153991	0.817285	0.237891	1.8573
-18.505	6.68	20.82113	0.193715	2.507792	0.151102	0.780024	0.227045	1.8065
-18.748	6.68	20.82113	0.202323	2.35056	0.147922	0.731118	0.21281	1.7297
-18.975	6.68	20.82113	0.209531	2.208302	0.143921	0.68687	0.19993	1.6702
-19.242	6.68	20.82113	0.21116	2.118455	0.139139	0.658924	0.191796	1.6573
-19.552	6.68	20.82113	0.215158	1.983684	0.132753	0.617005	0.179594	1.6265
-19.894	6.68	20.82113	0.225169	1.818964	0.127394	0.565771	0.164681	1.5542
-20.221	6.68	20.82113	0.234777	1.654245	0.120801	0.514536	0.149768	1.4906
-20.554	6.68	20.82113	0.242921	1.5045	0.113677	0.46796	0.136211	1.4406
-20.851	6.68	20.8385	0.238453	1.429627	0.106033	0.444671	0.129432	1.4676
-21.193	6.68	20.8385	0.235263	1.332293	0.097492	0.414396	0.12062	1.4875
-21.399	6.68	20.8385	0.230009	1.272395	0.09103	0.395766	0.115197	1.5215
-21.545	6.68	20.8385	0.223297	1.234958	0.085773	0.384122	0.111808	1.5672
-21.584	6.68	20.8385	0.212922	1.227471	0.081292	0.381793	0.11113	1.6436
-21.565	6.68	20.8385	0.202893	1.249933	0.07888	0.388779	0.113164	1.7248
-21.418	6.68	20.8385	0.194317	1.309831	0.079167	0.40741	0.118587	1.8009
-21.340	6.68	20.8385	0.193417	1.332293	0.080151	0.414396	0.12062	1.8093
-21.389	6.68	20.8385	0.198716	1.324805	0.081884	0.412068	0.119942	1.7611
-21.526	6.68	20.8385	0.20758	1.287369	0.08312	0.400423	0.116553	1.6859
-21.692	6.68	20.8385	0.216963	1.234958	0.08334	0.384121	0.111808	1.6130
-21.965	6.68	20.8385	0.219263	1.17506	0.080138	0.365491	0.106385	1.5961
-22.268	6.68	20.8385	0.225265	1.085213	0.076037	0.337545	0.098251	1.5535
-22.591	6.68	20.8385	0.23109	1.002853	0.072083	0.311928	0.090794	1.5144
-22.904	6.68	20.8385	0.235913	0.927981	0.068094	0.288639	0.084015	1.4834
-23.216	6.68	20.8385	0.249638	0.845621	0.06566	0.263022	0.076559	1.4018
-23.519	6.68	20.8385	0.27784	0.718338	0.062078	0.223432	0.065035	1.2596
-23.793	6.68	20.8385	0.27588	0.688389	0.05907	0.214116	0.062324	1.2685
-24.067	6.68	20.8385	0.30077	0.606029	0.056695	0.188499	0.054867	1.1635
-24.321	6.68	20.8385	0.337347	0.523669	0.054948	0.162882	0.047411	1.0374
-24.556	6.68	20.8385	0.341849	0.501207	0.053293	0.155895	0.045377	1.0237
-24.810	6.68	20.8385	0.278449	0.57608	0.049893	0.179184	0.052156	1.2568
-25.084	6.68	20.8385	0.245793	0.583567	0.044615	0.181513	0.052834	1.4238
-25.348	6.68	20.8385	0.244729	0.523669	0.039862	0.162882	0.047411	1.4300
-25.553	6.68	20.8385	0.216374	0.523669	0.035243	0.162882	0.047411	1.6174
-25.681	6.68	20.8385	0.214791	0.478746	0.031984	0.148909	0.043344	1.6293
-25.759	6.68	20.8385	0.197601	0.486233	0.029885	0.151238	0.044021	1.7710
-25.827	6.68	20.8385	0.163739	0.553618	0.028195	0.172197	0.050122	2.1373
-25.896	6.68	20.8385	0.168802	0.538644	0.028281	0.16754	0.048767	2.0732
-25.984	6.68	20.8385	0.185914	0.508695	0.029416	0.158224	0.046055	1.8823
-26.140	6.68	20.8385	0.208104	0.471258	0.030504	0.14658	0.042666	1.6816
-26.336	6.68	20.8385	0.206802	0.463771	0.029832	0.144251	0.041988	1.6922
-26.453	6.68	20.8385	0.188479	0.508695	0.029822	0.158224	0.046055	1.8567
-26.620	6.68	20.8385	0.209868	0.441309	0.028807	0.137265	0.039954	1.6675
-26.894	6.68	20.8385	0.21014	0.418847	0.027377	0.130278	0.037921	1.6653
-27.236	6.68	20.8385	0.24141	0.343975	0.025828	0.10699	0.031142	1.4496
-27.559	6.68	20.8385	0.201489	0.388898	0.024373	0.120963	0.035209	1.7368
-27.863	6.68	20.8385	0.220835	0.343975	0.023627	0.10699	0.031142	1.5847
-28.127	6.68	20.82113	0.256601	0.291564	0.023271	0.090688	0.026397	1.3638
-28.352	6.68	20.82113	0.374979	0.201717	0.023527	0.062742	0.018263	0.9333
-28.597	6.68	20.82113	0.328882	0.224179	0.022932	0.069729	0.020296	1.0641
-28.842	6.68	20.82113	0.367764	0.201717	0.023074	0.062742	0.018263	0.9516

-29.106	6.68	20.82113	0.431362	0.156793	0.021037	0.048769	0.014195	0.8113
-29.361	6.68	20.80377	0.260098	0.239153	0.019348	0.074386	0.021652	1.3455
-29.596	6.68	20.80377	0.309847	0.171768	0.016554	0.053427	0.015551	1.1294
-3.193	9.52	20.82113	1.408391	163.9106	71.80367	50.98277	15.68539	0.2112
-3.553	9.52	20.82113	1.060512	166.4263	54.8977	51.76528	15.92613	0.2805
-3.864	9.52	20.82113	0.823781	166.0669	42.55114	51.65345	15.89174	0.3611
-4.136	9.52	20.82113	0.667021	160.0771	33.21125	49.79039	15.31854	0.4460
-4.428	9.52	20.82113	0.538193	157.4416	26.35567	48.97063	15.06634	0.5528
-4.719	9.52	20.82113	0.437365	157.6812	21.45065	49.04516	15.08927	0.6802
-5.031	9.52	20.82113	0.353629	159.7177	17.56779	49.6786	15.28415	0.8413
-5.391	9.52	20.82113	0.297498	162.473	15.03423	50.5356	15.54782	1.0000
-5.712	9.52	20.82113	0.262049	162.3532	13.23302	50.49834	15.53635	1.1353
-6.033	9.52	20.82113	0.237125	160.5563	11.84187	49.93943	15.3644	1.2546
-6.373	9.52	20.82113	0.218783	157.6812	10.73024	49.04515	15.08927	1.3598
-6.714	9.52	20.82113	0.204242	154.2071	9.796382	47.96458	14.75681	1.4566
-7.054	9.52	20.82113	0.193028	150.134	9.013956	46.69771	14.36704	1.5412
-7.395	9.52	20.82113	0.185726	144.9828	8.3754	45.09546	13.8741	1.6018
-7.755	9.52	20.82113	0.180465	140.0712	7.862456	43.56774	13.40408	1.6485
-8.106	9.52	20.82113	0.176281	135.7585	7.443675	42.22631	12.99138	1.6876
-8.456	9.52	20.82113	0.171615	132.7636	7.086787	41.2948	12.70478	1.7335
-8.807	9.52	20.82113	0.168126	129.4093	6.767302	40.25149	12.38379	1.7695
-9.147	9.52	20.82113	0.165291	125.9352	6.474583	39.17088	12.05134	1.7998
-9.508	9.52	20.82113	0.162755	122.8205	6.217564	38.2021	11.75328	1.8279
-9.849	9.52	20.82113	0.161067	119.4662	5.985032	37.15876	11.43229	1.8470
-10.189	9.52	20.82113	0.159511	116.4713	5.778639	36.22724	11.1457	1.8651
-10.540	9.52	20.82113	0.157955	113.716	5.586892	35.37024	10.88203	1.8834
-10.910	9.52	20.82113	0.155103	112.0389	5.405128	34.84859	10.72154	1.9181
-11.261	9.52	20.82113	0.153586	109.5231	5.23206	34.06608	10.48079	1.9370
-11.641	9.52	20.82113	0.153545	106.4084	5.081918	33.09728	10.18273	1.9375
-12.002	9.52	20.82113	0.153652	103.7729	4.959516	32.27754	9.930525	1.9362
-12.352	9.52	20.82113	0.155637	100.5384	4.867007	31.27147	9.621	1.9115
-12.703	9.52	20.82113	0.158402	96.70496	4.764601	30.07912	9.25416	1.8781
-13.054	9.52	20.82113	0.160076	93.35068	4.647923	29.0358	8.933173	1.8585
-13.415	9.52	20.82113	0.160953	90.11618	4.511475	28.02973	8.623648	1.8483
-13.785	9.52	20.82113	0.161394	86.88168	4.361468	27.02366	8.314123	1.8433
-14.136	9.52	20.82113	0.161061	83.88678	4.202423	26.09214	8.027527	1.8471
-14.507	9.52	20.82113	0.159797	81.13147	4.032491	25.23513	7.763858	1.8617
-14.878	9.52	20.82113	0.158447	78.49596	3.868536	24.41538	7.511654	1.8776
-15.239	9.52	20.82113	0.158603	75.50105	3.724615	23.48384	7.225056	1.8757
-15.580	9.52	20.82113	0.160454	72.26656	3.606647	22.47779	6.915533	1.8541
-15.931	9.52	20.82113	0.164983	68.79247	3.53017	21.39721	6.58308	1.8032
-16.214	9.52	20.82113	0.165773	67.23512	3.466772	20.91282	6.43405	1.7946
-16.497	9.52	20.82113	0.160794	67.83411	3.392614	21.09912	6.49137	1.8502
-16.791	9.52	20.82113	0.157107	67.47472	3.297265	20.98734	6.456979	1.8936
-17.082	9.52	20.82113	0.157796	65.79757	3.22941	20.46568	6.296484	1.8853
-17.381	9.52	20.82113	0.157628	64.36002	3.155477	20.01855	6.158918	1.8873
-17.677	9.52	20.82113	0.157956	62.56308	3.07377	19.45962	5.98696	1.8834
-17.971	9.52	20.82113	0.158865	60.64634	2.99674	18.86343	5.803538	1.8726
-18.248	9.52	20.80377	0.159533	58.8494	2.920177	18.30451	5.63158	1.8648
-18.566	9.52	20.82113	0.160163	56.81286	2.830256	17.67108	5.436694	1.8575
-18.901	9.52	20.82113	0.161644	54.65653	2.74801	17.00036	5.230345	1.8404
-19.228	9.52	20.80377	0.16423	52.14082	2.663457	16.21788	4.989604	1.8115
-19.551	9.52	20.80377	0.169069	49.02612	2.578144	15.24908	4.691544	1.7596
-19.871	9.52	20.80377	0.173015	46.5104	2.502938	14.4666	4.450803	1.7195
-20.157	9.52	20.80377	0.174495	44.83325	2.433319	13.94493	4.290308	1.7049
-20.436	9.52	20.80377	0.174999	43.2759	2.355577	13.46054	4.141278	1.7000
-20.738	9.52	20.80377	0.1756	41.71856	2.278607	12.97614	3.992248	1.6942
-21.042	9.52	20.80377	0.176414	40.281	2.210286	12.529	3.854681	1.6864
-21.418	9.52	20.80377	0.172016	39.56223	2.116729	12.30543	3.785899	1.7295
-21.682	9.52	20.80377	0.164915	39.80182	2.041642	12.37996	3.808826	1.8039
-21.868	9.52	20.80377	0.160341	39.56223	1.973068	12.30543	3.785899	1.8554
-22.024	9.52	20.80377	0.157732	39.44243	1.935086	12.26817	3.774435	1.8861
-22.141	9.52	20.80377	0.157622	39.20284	1.92199	12.19365	3.751507	1.8874
-22.298	9.52	20.80377	0.160225	38.36426	1.911941	11.93282	3.671259	1.8567
-22.542	9.52	20.80377	0.162735	37.4059	1.893381	11.63473	3.579549	1.8281
-22.825	9.52	20.80377	0.16647	36.08814	1.868602	11.22486	3.453447	1.7871
-23.148	9.52	20.80377	0.170043	34.53079	1.826343	10.74046	3.304416	1.7495
-23.471	9.52	20.80377	0.17305	32.97344	1.774814	10.25606	3.155386	1.7191
-23.832	9.52	20.80377	0.1748	31.41609	1.708089	9.77166	3.006356	1.7019
-24.204	9.52	20.80377	0.178201	29.49935	1.63508	9.175478	2.822934	1.6694
-24.527	9.52	20.80377	0.182606	27.58261	1.566627	8.579297	2.639512	1.6292

-24.820	9.52	20.80377	0.191235	25.42628	1.512396	7.908595	2.433162	1.5557
-25.104	9.52	20.80377	0.200803	23.46462	1.465547	7.298437	2.245442	1.4815
-25.426	9.52	20.80377	0.204962	22.13189	1.410935	6.883904	2.117906	1.4515
-25.759	9.52	20.80377	0.210505	20.99383	1.374583	6.529919	2.009	1.4133
-26.072	9.52	20.80377	0.209907	20.43228	1.334016	6.355257	1.955263	1.4173
-26.385	9.52	20.80377	0.201385	20.41731	1.278914	6.3506	1.95383	1.4773
-26.718	9.52	20.80377	0.19033	20.4248	1.209152	6.35293	1.954547	1.5631
-27.041	9.52	20.80377	0.183495	19.98305	1.140518	6.215527	1.912274	1.6213
-27.364	9.52	20.80377	0.177966	19.51135	1.080044	6.068812	1.867134	1.6717
-27.647	9.52	20.80377	0.171368	19.23432	1.025231	5.982645	1.840624	1.7360
-27.941	9.52	20.80377	0.169981	18.57545	0.982101	5.777706	1.777574	1.7502
-28.215	9.52	20.80377	0.170187	17.96149	0.950791	5.586743	1.718821	1.7481
-28.450	9.52	20.80377	0.169673	17.55718	0.926583	5.460985	1.68013	1.7534
-28.714	9.52	20.80377	0.172546	16.89081	0.906508	5.253718	1.616362	1.7242
-29.028	9.52	20.80377	0.176998	16.09716	0.886205	5.00686	1.540414	1.6808
-29.390	9.52	20.80377	0.183542	15.12382	0.8634	4.704113	1.447271	1.6209
-29.723	9.52	20.80377	0.190654	14.15796	0.839582	4.403695	1.354843	1.5604
-30.056	9.52	20.80377	0.198254	13.23703	0.816262	4.117247	1.266715	1.5006
-30.369	9.52	20.80377	0.206436	12.376	0.794659	3.849429	1.184319	1.4411
-30.653	9.52	20.80377	0.2149	11.59732	0.775195	3.607231	1.109803	1.3844
-30.928	9.52	20.80377	0.22391	10.87106	0.757113	3.381334	1.040304	1.3287
-31.202	9.52	20.80377	0.235268	10.12233	0.740731	3.14845	0.968654	1.2645
-31.486	9.52	20.78641	0.242367	9.605711	0.724136	2.987761	0.919216	1.2275
-31.751	9.52	20.80377	0.250767	9.096578	0.70952	2.829399	0.870495	1.1864
-32.025	9.52	20.80377	0.257296	8.714727	0.697432	2.710628	0.833954	1.1562
-32.290	9.52	20.78641	0.260976	8.415237	0.683099	2.617476	0.805294	1.1399
-32.564	9.52	20.80377	0.255752	8.27298	0.658109	2.573228	0.791681	1.1632
-32.858	9.52	20.78641	0.246811	8.100773	0.62188	2.519665	0.775202	1.2054
-33.162	9.52	20.78641	0.237239	7.868668	0.580636	2.44747	0.75299	1.2540
-33.485	9.52	20.78641	0.230561	7.501792	0.537981	2.333357	0.717882	1.2903
-33.799	9.52	20.78641	0.22342	7.104968	0.493742	2.209929	0.679908	1.3316
-4.262	14.04	20.87323	0.231632	47.46877	3.419973	14.76468	16.81265	0.8514
-4.603	14.04	20.87323	0.221319	46.15101	3.176994	14.35481	16.34592	0.8911
-4.924	14.04	20.87323	0.209761	45.31244	2.956373	14.09398	16.04891	0.9401
-5.225	14.04	20.87323	0.197206	44.83325	2.75003	13.94493	15.87919	1.0000
-5.527	14.04	20.87323	0.187102	44.23427	2.574272	13.75863	15.66704	1.0540
-5.819	14.04	20.87323	0.18117	42.79672	2.411645	13.31149	15.15789	1.0885
-6.081	14.04	20.87323	0.174932	41.35917	2.250383	12.86436	14.64873	1.1273
-6.383	14.04	20.87323	0.16648	40.64039	2.104442	12.64079	14.39415	1.1846
-6.685	14.04	20.87323	0.16222	39.20284	1.978053	12.19365	13.88499	1.2157
-7.006	14.04	20.87323	0.162278	36.92671	1.863877	11.48569	13.07883	1.2152
-7.337	14.04	20.87323	0.16151	34.89017	1.752744	10.85224	12.35752	1.2210
-7.668	14.04	20.87323	0.158358	33.57242	1.653629	10.44236	11.89079	1.2453
-8.018	14.04	20.87323	0.156794	32.13486	1.567189	9.995229	11.38163	1.2577
-8.320	14.04	20.87323	0.155295	30.81711	1.488552	9.585351	10.91491	1.2699
-8.651	14.04	20.87323	0.152336	29.85874	1.414781	9.287261	10.57547	1.2946
-8.904	14.04	20.87323	0.147486	29.02017	1.331276	9.026431	10.27846	1.3371
-9.284	14.04	20.87323	0.145106	28.18159	1.27194	8.765602	9.981451	1.3591
-9.615	14.04	20.87323	0.140444	27.942	1.220606	8.69108	9.896592	1.4042
-9.936	14.04	20.87323	0.137911	27.46282	1.178041	8.542039	9.726874	1.4300
-10.287	14.04	20.87323	0.135586	27.10343	1.143027	8.430252	9.599584	1.4545
-10.608	14.04	20.87323	0.135688	26.38465	1.113546	8.206681	9.345004	1.4534
-10.959	14.04	20.87323	0.135993	25.78567	1.090711	8.020373	9.132856	1.4501
-11.310	14.04	20.87323	0.137972	24.9471	1.070599	7.759546	8.835848	1.4293
-11.661	14.04	20.87323	0.142497	23.62185	1.046977	7.347341	8.366466	1.3839
-12.070	14.04	20.87323	0.144567	22.78328	1.024478	7.08651	8.069459	1.3641
-12.430	14.04	20.87323	0.145151	22.07948	0.996841	6.867603	7.820185	1.3586
-12.801	14.04	20.87323	0.146074	21.24091	0.965076	6.606772	7.523177	1.3500
-13.152	14.04	20.87323	0.146154	20.51464	0.932592	6.380873	7.265944	1.3493
-13.542	14.04	20.87323	0.147455	19.6611	0.901743	6.115389	6.963635	1.3374
-13.941	14.04	20.87323	0.150024	18.68775	0.872035	5.812638	6.61889	1.3145
-14.312	14.04	20.87323	0.153063	17.73687	0.844428	5.516879	6.282104	1.2884
-14.644	14.04	20.87323	0.161783	16.25439	0.817939	5.055768	5.757035	1.2190
-14.926	14.04	20.87323	0.169446	15.08638	0.795121	4.692469	5.343345	1.1638
-15.209	14.04	20.87323	0.165456	15.03397	0.773701	4.676167	5.324782	1.1919
-15.502	14.04	20.87323	0.164155	14.71202	0.751175	4.576027	5.210753	1.2013
-15.785	14.04	20.87323	0.156675	14.85428	0.723881	4.620273	5.261139	1.2587
-16.048	14.04	20.85586	0.144458	15.38587	0.69132	4.785623	5.449419	1.3652
-16.234	14.04	20.85586	0.139448	15.24362	0.661177	4.741376	5.399037	1.4142
-16.390	14.04	20.85586	0.135489	15.15377	0.638617	4.71343	5.367213	1.4555
-16.614	14.04	20.85586	0.1342	14.86925	0.620664	4.624934	5.266441	1.4695

-16.945	14.04	20.85586	0.134651	14.40504	0.60331	4.480543	5.102026	1.4646
-17.206	14.04	20.85586	0.134733	14.15796	0.59332	4.403692	5.014514	1.4637
-17.416	14.04	20.85586	0.134668	14.03068	0.587706	4.364102	4.969434	1.4644
-17.650	14.04	20.85586	0.135819	13.79857	0.582922	4.291911	4.887224	1.4520
-17.796	14.04	20.85586	0.136965	13.59642	0.579227	4.229029	4.815626	1.4398
-18.005	14.04	20.85586	0.139196	13.27447	0.574723	4.12889	4.701597	1.4168
-18.306	14.04	20.85586	0.141449	12.85518	0.56558	3.998476	4.553091	1.3942
-18.650	14.04	20.85586	0.144777	12.35353	0.556296	3.842443	4.375415	1.3621
-18.992	14.04	20.85586	0.147013	11.94174	0.546058	3.714357	4.229566	1.3414
-19.317	14.04	20.85586	0.149347	11.52994	0.535597	3.586271	4.083713	1.3205
-19.616	14.04	20.85586	0.151328	11.19301	0.526846	3.481475	3.964378	1.3032
-19.810	14.04	20.85586	0.151067	11.05075	0.519249	3.437223	3.913992	1.3054
-19.920	14.04	20.85586	0.150338	10.96839	0.512894	3.411609	3.884821	1.3118
-20.069	14.04	20.85586	0.150252	10.86357	0.507701	3.379006	3.847696	1.3125
-20.302	14.04	20.85586	0.152573	10.62398	0.504173	3.304481	3.762837	1.2925
-20.574	14.04	20.85586	0.15563	10.33946	0.500504	3.215986	3.662065	1.2671
-20.845	14.04	20.85586	0.158359	10.09987	0.497478	3.141465	3.577206	1.2453
-21.036	14.04	20.85586	0.16129	9.88274	0.495794	3.073928	3.500302	1.2227
-21.359	14.04	20.85586	0.164363	9.680584	0.494904	3.01105	3.428702	1.1998
-21.584	14.04	20.85586	0.167363	9.515864	0.495363	2.959814	3.370361	1.1783
-21.838	14.04	20.85586	0.171794	9.306221	0.497277	2.894608	3.296109	1.1479
-22.092	14.04	20.85586	0.17681	9.051654	0.497797	2.815426	3.205945	1.1154
-22.366	14.04	20.85586	0.180614	8.87196	0.49841	2.759535	3.142301	1.0919
-22.708	14.04	20.85586	0.188112	8.497597	0.497198	2.643094	3.009708	1.0483
-23.040	14.04	20.85586	0.196246	8.10826	0.494932	2.521993	2.871811	1.0049
-23.402	14.04	20.85586	0.20234	7.816257	0.491922	2.431168	2.768388	0.9746
-23.744	14.04	20.85586	0.209423	7.494305	0.488172	2.33103	2.654358	0.9417
-24.106	14.04	20.85586	0.217601	7.142404	0.483416	2.221573	2.529721	0.9063
-24.448	14.04	20.85586	0.222298	6.88035	0.475732	2.140063	2.436906	0.8871
-24.791	14.04	20.85586	0.229419	6.558398	0.467998	2.039924	2.322876	0.8596
-25.104	14.04	20.85586	0.238664	6.213984	0.46129	1.932797	2.20089	0.8263
-25.407	14.04	20.85586	0.244815	5.996853	0.456644	1.865261	2.123986	0.8055
-25.710	14.04	20.85586	0.254169	5.734799	0.453374	1.783752	2.03117	0.7759
-26.003	14.04	20.85586	0.262058	5.562593	0.45341	1.73019	1.970178	0.7525
-26.287	14.04	20.85586	0.272118	5.375411	0.454972	1.671968	1.903881	0.7247
-26.561	14.04	20.85586	0.286185	5.158281	0.459164	1.604432	1.826977	0.6891
-26.816	14.04	20.85586	0.307757	4.873765	0.46654	1.515935	1.726207	0.6408
-27.060	14.04	20.85586	0.322499	4.731507	0.474618	1.471688	1.675821	0.6115
-27.315	14.04	20.85586	0.30753	4.88874	0.467628	1.520594	1.73151	0.6413
-27.608	14.04	20.85586	0.296974	4.821354	0.445352	1.499633	1.707643	0.6641
-27.892	14.04	20.85586	0.299726	4.5593	0.425049	1.418125	1.614828	0.6580
-28.186	14.04	20.85586	0.303758	4.297246	0.406008	1.336615	1.522013	0.6492
-28.450	14.04	20.85586	0.310768	4.035192	0.390047	1.255106	1.429198	0.6346
-28.724	14.04	20.85586	0.330007	3.675804	0.377304	1.143322	1.301909	0.5976
-28.979	14.04	20.85586	0.348809	3.368826	0.365495	1.04784	1.193182	0.5654
-29.233	14.04	20.85586	0.368458	3.084311	0.353478	0.959344	1.092412	0.5352
-29.498	14.04	20.85586	0.385419	2.829744	0.339232	0.880164	1.002248	0.5117
-29.772	14.04	20.85586	0.398445	2.605126	0.322859	0.810298	0.922692	0.4949
-30.017	14.04	20.85586	0.400313	2.43292	0.302931	0.756735	0.8617	0.4926
-30.281	14.04	20.85586	0.405576	2.238251	0.282356	0.696186	0.792751	0.4862
-30.536	14.04	20.85586	0.412541	2.043582	0.262225	0.635636	0.723803	0.4780
-30.790	14.04	20.85586	0.420192	1.856401	0.242625	0.577415	0.657506	0.4693
-31.065	14.04	20.85586	0.43405	1.669219	0.225356	0.519194	0.59121	0.4543
-31.329	14.04	20.85586	0.427914	1.55691	0.207222	0.484261	0.551432	0.4609
-31.604	14.04	20.85586	0.423349	1.452089	0.191209	0.451658	0.514306	0.4658
-31.868	14.04	20.85586	0.414505	1.354754	0.174665	0.421383	0.479831	0.4758
-32.152	14.04	20.85586	0.401606	1.279882	0.159877	0.398095	0.453313	0.4910
-32.437	14.04	20.85586	0.387439	1.205009	0.145215	0.374806	0.426794	0.5090
-32.711	14.04	20.85586	0.370841	1.137624	0.131221	0.353847	0.402928	0.5318
-32.995	14.04	20.85586	0.371665	1.032802	0.119395	0.321243	0.365801	0.5306
-33.270	14.04	20.85586	0.361667	0.965417	0.108603	0.300283	0.341935	0.5453
-33.544	14.04	20.85586	0.354768	0.905519	0.099921	0.281653	0.32072	0.5559
-33.789	14.04	20.85586	0.356705	0.838134	0.092991	0.260693	0.296853	0.5529
-34.054	14.04	20.85586	0.354599	0.785723	0.086661	0.244391	0.27829	0.5561
-34.319	14.04	20.85586	0.358551	0.725825	0.080947	0.225761	0.257075	0.5500
-34.603	14.04	20.85586	0.353863	0.688389	0.075768	0.214116	0.243816	0.5573
-34.878	14.04	20.85586	0.348768	0.650952	0.070616	0.202472	0.230557	0.5654
-35.152	14.04	20.85586	0.346763	0.613516	0.066172	0.190828	0.217297	0.5687
-35.427	14.04	20.85586	0.341796	0.57608	0.061244	0.179184	0.204038	0.5770
-35.701	14.04	20.85586	0.328415	0.553618	0.056552	0.172197	0.196082	0.6005
-35.986	14.04	20.85586	0.325358	0.508695	0.05148	0.158224	0.180171	0.6061

-36.261	14.04	20.85586	0.332019	0.463771	0.047894	0.144251	0.16426	0.5940
-36.535	14.04	20.85586	0.326534	0.441309	0.044822	0.137265	0.156304	0.6039
-36.810	14.04	20.85586	0.320169	0.41136	0.040965	0.127949	0.145697	0.6159
-37.075	14.04	20.85586	0.32088	0.381411	0.038067	0.118634	0.135089	0.6146
-37.330	14.04	20.85586	0.317946	0.358949	0.035498	0.111648	0.127134	0.6203
-37.605	14.04	20.85586	0.322951	0.329	0.033048	0.102332	0.116526	0.6106
-37.880	14.04	20.85586	0.328962	0.291564	0.029833	0.090688	0.103267	0.5995
-38.164	14.04	20.85586	0.335852	0.261615	0.027329	0.081373	0.09266	0.5872
-38.449	14.04	20.85586	0.267737	0.299051	0.024904	0.093017	0.105919	0.7366
-38.734	14.04	20.85586	0.265931	0.27659	0.022878	0.08603	0.097963	0.7416
-39.028	14.04	20.85586	0.291804	0.231666	0.021027	0.072057	0.082052	0.6758
-39.313	14.04	20.85586	0.329875	0.186743	0.019161	0.058084	0.066141	0.5978
-39.588	14.04	20.8385	0.25191	0.216692	0.016979	0.0674	0.076749	0.7828
-39.863	14.04	20.8385	0.236805	0.216692	0.015961	0.0674	0.076749	0.8328
-40.157	14.04	20.8385	0.249623	0.179255	0.013918	0.055756	0.063489	0.7900
-40.442	14.04	20.8385	0.265439	0.156793	0.012945	0.048769	0.055534	0.7429
-40.737	14.04	20.8385	0.194478	0.201717	0.012202	0.062742	0.071445	1.0140
-40.953	14.04	20.8385	0.178775	0.186743	0.010384	0.058084	0.066141	1.1031
-41.041	14.04	20.8385	0.217593	0.134332	0.009092	0.041783	0.047578	0.9063
-41.041	14.04	20.8385	0.177392	0.141819	0.007825	0.044111	0.05023	1.1117
-40.982	14.04	20.8385	0.185021	0.126844	0.0073	0.039454	0.044926	1.0659
-40.924	14.04	20.8385	0.124502	0.19423	0.007522	0.060413	0.068793	1.5840
-40.865	14.04	20.8385	0.137303	0.171768	0.007336	0.053427	0.060837	1.4363
-40.835	14.04	20.8385	0.147369	0.149306	0.006844	0.04644	0.052882	1.3382
-40.845	14.04	20.8385	0.127077	0.149306	0.005902	0.04644	0.052882	1.5519
-40.874	14.04	20.8385	0.16074	0.141819	0.00709	0.044111	0.05023	1.2269
-40.884	14.04	20.8385	0.172494	0.119357	0.006404	0.037125	0.042274	1.1433
-40.874	14.04	20.8385	0.12794	0.149306	0.005942	0.04644	0.052882	1.5414
-40.855	14.04	20.8385	0.100987	0.179255	0.005631	0.055756	0.063489	1.9528
-40.806	14.04	20.8385	0.117873	0.156793	0.005749	0.048769	0.055534	1.6730
-40.678	14.04	20.8385	0.133687	0.149306	0.006208	0.04644	0.052882	1.4751
-5.430	21.83	20.71695	0.212961	8.767138	0.58073	2.726931	16.20917	0.9331
-5.741	21.83	20.71695	0.198708	8.737189	0.540013	2.717616	16.15379	1.0000
-6.081	21.83	20.71695	0.190673	8.460161	0.501747	2.631449	15.64161	1.0421
-6.422	21.83	20.71695	0.182853	8.280467	0.470949	2.575556	15.30938	1.0867
-6.762	21.83	20.71695	0.173505	8.280467	0.446871	2.575557	15.30938	1.1453
-7.054	21.83	20.71695	0.173081	8.055849	0.433687	2.50569	14.8941	1.1481
-7.346	21.83	20.71695	0.17757	7.80877	0.431289	2.42884	14.43728	1.1190
-7.648	21.83	20.71695	0.177622	7.778821	0.429761	2.419525	14.38191	1.1187
-7.930	21.83	20.71695	0.175668	7.80877	0.426669	2.428839	14.43728	1.1312
-8.222	21.83	20.71695	0.174002	7.771333	0.420598	2.417196	14.36807	1.1420
-8.495	21.83	20.71695	0.172333	7.696461	0.41255	2.393907	14.22964	1.1530
-8.787	21.83	20.71695	0.171271	7.584152	0.404023	2.358975	14.022	1.1602
-9.069	21.83	20.73431	0.172465	7.411945	0.397602	2.305411	13.70361	1.1522
-9.362	21.83	20.73431	0.17699	7.104968	0.391135	2.209929	13.13605	1.1227
-9.664	21.83	20.73431	0.181119	6.835426	0.385076	2.126091	12.63771	1.0971
-9.946	21.83	20.73431	0.186921	6.528449	0.379563	2.030608	12.07015	1.0631
-10.219	21.83	20.73431	0.199451	6.0867	0.377603	1.893207	11.25343	0.9963
-10.482	21.83	20.73431	0.208131	5.86957	0.379979	1.825671	10.85198	0.9547
-10.725	21.83	20.73431	0.212077	5.802185	0.382738	1.804712	10.7274	0.9370
-10.959	21.83	20.73431	0.213197	5.764749	0.382277	1.793067	10.65818	0.9320
-11.212	21.83	20.73431	0.213621	5.682389	0.377565	1.76745	10.50591	0.9302
-11.466	21.83	20.73431	0.220442	5.450284	0.373705	1.695256	10.07678	0.9014
-11.719	21.83	20.73431	0.224297	5.285564	0.368749	1.644022	9.772241	0.8859
-11.972	21.83	20.73431	0.227971	5.128332	0.36364	1.595116	9.481542	0.8716
-12.236	21.83	20.73431	0.23174	4.948637	0.3567	1.539224	9.149312	0.8575
-12.499	21.83	20.73431	0.22701	4.926176	0.347833	1.532238	9.107785	0.8753
-12.772	21.83	20.73431	0.22509	4.866278	0.340697	1.513607	8.997042	0.8828
-13.035	21.83	20.73431	0.22631	4.738995	0.333584	1.474017	8.761714	0.8780
-13.317	21.83	20.73431	0.222771	4.694071	0.325256	1.460044	8.678656	0.8920
-13.590	21.83	20.73431	0.223807	4.536839	0.315823	1.411138	8.387957	0.8879
-13.863	21.83	20.73431	0.218188	4.536839	0.307893	1.411139	8.387957	0.9107
-14.127	21.83	20.73431	0.220127	4.402068	0.301402	1.369219	8.138785	0.9027
-14.390	21.83	20.73431	0.220385	4.289759	0.294056	1.334287	7.931142	0.9016
-14.653	21.83	20.73431	0.21956	4.207399	0.287332	1.30867	7.77887	0.9050
-14.917	21.83	20.73431	0.224835	4.027705	0.281668	1.252778	7.446642	0.8838
-15.190	21.83	20.73431	0.225344	3.945345	0.276533	1.22716	7.29437	0.8818
-15.443	21.83	20.73431	0.236221	3.698266	0.271727	1.150308	6.837557	0.8412
-15.717	21.83	20.73431	0.241666	3.541033	0.266172	1.101403	6.546856	0.8222
-15.970	21.83	20.73431	0.233733	3.57847	0.260156	1.113047	6.616072	0.8502
-16.234	21.83	20.71695	0.233012	3.511084	0.254469	1.092088	6.491485	0.8528

-16.487	21.83	20.71695	0.237277	3.361339	0.248076	1.045511	6.214628	0.8375
-16.771	21.83	20.71695	0.244449	3.159183	0.240203	0.982632	5.840871	0.8129
-17.045	21.83	20.71695	0.236098	3.174158	0.233097	0.98729	5.868558	0.8416
-17.313	21.83	20.71695	0.235289	3.084311	0.225723	0.959344	5.702443	0.8445
-17.594	21.83	20.71695	0.238902	2.957027	0.219731	0.919754	5.467114	0.8318
-17.851	21.83	20.71695	0.241547	2.844718	0.213726	0.884821	5.259471	0.8226
-18.115	21.83	20.71695	0.234196	2.86718	0.208858	0.891808	5.301	0.8485
-18.376	21.83	20.71695	0.228744	2.882155	0.205061	0.896466	5.328686	0.8687
-18.641	21.83	20.71695	0.229595	2.81477	0.201011	0.875506	5.204101	0.8655
-18.894	21.83	20.71695	0.234535	2.687486	0.196051	0.835916	4.968772	0.8472
-19.154	21.83	20.71695	0.239247	2.575177	0.191633	0.800983	4.761129	0.8306
-19.410	21.83	20.71695	0.239524	2.537741	0.189065	0.789339	4.691915	0.8296
-19.673	21.83	20.71695	0.239561	2.477843	0.184632	0.770708	4.581172	0.8295
-19.934	21.83	20.71695	0.237827	2.425432	0.179418	0.754407	4.484272	0.8355
-20.204	21.83	20.69958	0.22849	2.440407	0.173438	0.759064	4.511958	0.8697
-20.475	21.83	20.69958	0.225959	2.373021	0.166781	0.738104	4.387371	0.8794
-20.753	21.83	20.71695	0.218677	2.335585	0.15886	0.72646	4.318158	0.9087
-21.030	21.83	20.69958	0.227031	2.163378	0.152768	0.672897	3.999772	0.8752
-21.379	21.83	20.69958	0.231815	2.043582	0.14735	0.635636	3.778287	0.8572
-21.633	21.83	20.69958	0.224993	2.066044	0.144585	0.642622	3.819816	0.8832
-21.887	21.83	20.69958	0.225374	2.043582	0.143256	0.635636	3.778287	0.8817
-22.141	21.83	20.69958	0.231471	1.961222	0.141202	0.610019	3.626015	0.8585
-22.395	21.83	20.69958	0.227098	1.968709	0.139063	0.612347	3.639857	0.8750
-22.649	21.83	20.69958	0.226805	1.931273	0.136242	0.600703	3.570644	0.8761
-22.904	21.83	20.69958	0.227235	1.871375	0.132267	0.582072	3.459901	0.8745
-23.167	21.83	20.69958	0.219959	1.893837	0.129569	0.589059	3.50143	0.9034
-23.422	21.83	20.69958	0.212634	1.908811	0.126244	0.593717	3.529115	0.9345
-23.686	21.83	20.69958	0.219953	1.80399	0.123418	0.561113	3.335316	0.9034
-23.940	21.83	20.69958	0.21831	1.789015	0.12148	0.556455	3.307629	0.9102
-24.204	21.83	20.69958	0.222612	1.72163	0.119208	0.535496	3.183044	0.8926
-24.468	21.83	20.69958	0.228575	1.646757	0.117078	0.512208	3.044615	0.8693
-24.732	21.83	20.69958	0.23184	1.586859	0.114431	0.493577	2.933872	0.8571
-24.996	21.83	20.69958	0.224341	1.609321	0.112297	0.500563	2.975401	0.8857
-25.260	21.83	20.69958	0.221037	1.609321	0.110643	0.500563	2.975401	0.8990
-25.524	21.83	20.69958	0.223188	1.571885	0.109121	0.488919	2.906187	0.8903
-25.788	21.83	20.69958	0.22329	1.541936	0.107091	0.479604	2.850816	0.8899
-26.052	21.83	20.69958	0.220642	1.526961	0.104793	0.474946	2.823129	0.9006
-26.317	21.83	20.71695	0.223194	1.482038	0.102886	0.460973	2.740073	0.8903
-26.581	21.83	20.71695	0.233421	1.399678	0.101621	0.435356	2.587802	0.8513
-26.835	21.83	20.71695	0.246376	1.317318	0.10095	0.409739	2.43553	0.8065
-27.109	21.83	20.71695	0.248316	1.294856	0.10001	0.402752	2.394001	0.8002
-27.383	21.83	20.71695	0.235273	1.347267	0.098592	0.419054	2.490901	0.8446
-27.657	21.83	20.71695	0.237976	1.324805	0.098062	0.412068	2.449372	0.8350
-27.921	21.83	20.71695	0.252448	1.242446	0.097559	0.38645	2.297102	0.7871
-28.176	21.83	20.71695	0.256212	1.212497	0.096626	0.377135	2.241731	0.7756
-28.430	21.83	20.73431	0.266548	1.152599	0.095559	0.358504	2.130988	0.7455
-28.695	21.83	20.73431	0.263356	1.160086	0.095027	0.360833	2.144831	0.7545
-28.959	21.83	20.73431	0.258463	1.17506	0.094466	0.365491	2.172515	0.7688
-29.233	21.83	20.73431	0.270474	1.107675	0.093187	0.344531	2.04793	0.7347
-29.498	21.83	20.73431	0.287299	1.032802	0.092293	0.321243	1.909501	0.6916
-29.772	21.83	20.73431	0.278103	1.055264	0.091282	0.328229	1.95103	0.7145
-30.036	21.83	20.73431	0.277118	1.055264	0.090958	0.328229	1.95103	0.7171
-30.310	21.83	20.73431	0.296591	0.987879	0.091133	0.30727	1.826445	0.6700
-30.575	21.83	20.73431	0.315971	0.935468	0.091937	0.290968	1.729545	0.6289
-30.839	21.83	20.73431	0.310914	0.950443	0.091914	0.295626	1.75723	0.6391
-31.104	21.83	20.73431	0.315197	0.935468	0.091712	0.290968	1.729545	0.6304
-31.359	21.83	20.73431	0.349514	0.845621	0.09193	0.263022	1.563431	0.5685
-31.613	21.83	20.73431	0.368256	0.785723	0.089998	0.244391	1.452688	0.5396
-31.888	21.83	20.73431	0.354778	0.808185	0.089183	0.251378	1.494216	0.5601
-32.152	21.83	20.71695	0.379118	0.740799	0.087356	0.230418	1.369631	0.5241
-32.427	21.83	20.71695	0.349634	0.79321	0.086262	0.24672	1.466531	0.5683
-32.711	21.83	20.71695	0.366	0.733312	0.083481	0.228089	1.355788	0.5429
-32.985	21.83	20.71695	0.39553	0.65844	0.081005	0.204801	1.217359	0.5024
-33.260	21.83	20.69958	0.351753	0.71085	0.077774	0.221103	1.314259	0.5649
-33.534	21.83	20.69958	0.3691	0.650952	0.074733	0.202472	1.203517	0.5384
-33.799	21.83	20.69958	0.326262	0.695876	0.070618	0.216445	1.286574	0.6090
-34.064	21.83	20.69958	0.366887	0.591054	0.067449	0.183842	1.092774	0.5416
-34.328	21.83	20.69958	0.326389	0.635978	0.064565	0.197815	1.175831	0.6088
-34.593	21.83	20.68222	0.374718	0.523669	0.061035	0.162882	0.968188	0.5303
-34.858	21.83	20.68222	0.342594	0.561105	0.059792	0.174526	1.037402	0.5800
-35.133	21.83	20.68222	0.397088	0.463771	0.057281	0.144251	0.857445	0.5004

-35.397	21.83	20.68222	0.352609	0.501207	0.05497	0.155896	0.926659	0.5635
-35.672	21.83	20.68222	0.403374	0.418847	0.052551	0.130278	0.774388	0.4926
-35.947	21.83	20.68222	0.360988	0.448797	0.050392	0.139594	0.82976	0.5505
-36.212	21.83	20.68222	0.415003	0.366437	0.047301	0.113976	0.677488	0.4788
-36.496	21.83	20.68222	0.365382	0.396386	0.045049	0.123292	0.73286	0.5438
-36.771	21.83	20.68222	0.437687	0.314026	0.042751	0.097675	0.580588	0.4540
-37.055	21.83	20.68222	0.37564	0.336488	0.039315	0.104661	0.622117	0.5290
-37.330	21.83	20.68222	0.315253	0.366437	0.035931	0.113976	0.677488	0.6303
-37.605	21.83	20.68222	0.439194	0.254128	0.034716	0.079044	0.469845	0.4524
-37.890	21.83	20.68222	0.386493	0.269102	0.03235	0.083702	0.497531	0.5141
-38.164	21.83	20.68222	0.344011	0.27659	0.029595	0.08603	0.511374	0.5776
-38.449	21.83	20.68222	0.388492	0.224179	0.027089	0.069729	0.414474	0.5115
-38.724	21.83	20.68222	0.385284	0.216692	0.025968	0.0674	0.400631	0.5157
-39.009	21.83	20.68222	0.308717	0.269102	0.02584	0.083702	0.497531	0.6437
-39.293	21.83	20.68222	0.585686	0.134332	0.024471	0.041783	0.24836	0.3393
-39.588	21.83	20.68222	0.416035	0.179255	0.023196	0.055756	0.331417	0.4776
-39.873	21.83	20.68222	0.39215	0.179255	0.021865	0.055756	0.331417	0.5067
-40.157	21.83	20.68222	0.322905	0.19423	0.019508	0.060413	0.359103	0.6154
-40.452	21.83	20.69958	0.541604	0.104383	0.017584	0.032467	0.192988	0.3669
-40.737	21.83	20.69958	0.415729	0.134332	0.01737	0.041783	0.24836	0.4780
-41.022	21.83	20.69958	0.305543	0.164281	0.015613	0.051098	0.303731	0.6503
-41.316	21.83	20.69958	0.304333	0.164281	0.015551	0.051098	0.303731	0.6529
-41.592	21.83	20.69958	0.540328	0.089408	0.015026	0.02781	0.165303	0.3678
-4.301	32.54	21.41152	0.168584	55.97429	2.935083	17.41024	2.628463	0.9108
-4.467	32.54	21.41152	0.160478	59.20879	2.955414	18.4163	2.78035	0.9568
-4.642	32.54	21.41152	0.157409	60.64634	2.969273	18.86343	2.847855	0.9755
-4.817	32.54	21.41152	0.156679	61.36512	2.990541	19.08701	2.881608	0.9800
-5.070	32.54	21.41152	0.153553	62.56308	2.988089	19.45962	2.937862	1.0000
-5.352	32.54	21.41152	0.151895	63.40165	2.995431	19.72044	2.97724	1.0109
-5.673	32.54	21.39415	0.154018	63.76104	3.054515	19.83223	2.994117	0.9970
-5.974	32.54	21.35942	0.159944	63.52145	3.160133	19.75771	2.982866	0.9600
-6.266	32.54	21.30733	0.169533	62.56308	3.29905	19.45962	2.937862	0.9057
-6.587	32.54	21.25524	0.180603	60.88593	3.420246	18.93796	2.859106	0.8502
-6.899	32.54	21.20315	0.1904	58.8494	3.485181	18.30451	2.763474	0.8065
-7.210	32.54	21.15105	0.196229	57.53164	3.511447	17.89465	2.701594	0.7825
-7.541	32.54	21.09896	0.19948	56.57327	3.510153	17.59655	2.65659	0.7698
-7.852	32.54	21.06423	0.203943	55.13572	3.497505	17.14942	2.589085	0.7529
-8.174	32.54	21.0295	0.206512	53.69817	3.449216	16.70228	2.52158	0.7436
-8.466	32.54	20.99478	0.205203	53.21898	3.39677	16.55324	2.499078	0.7483
-8.758	32.54	20.97741	0.205049	52.62	3.356026	16.36692	2.470951	0.7489
-9.050	32.54	20.94268	0.246916	52.62	4.041262	16.36693	2.470951	0.6219
-9.274	32.54	20.92532	0.245468	53.45857	4.081576	16.62776	2.510329	0.6256
-9.566	32.54	20.90796	0.246848	54.29715	4.168921	16.88859	2.549707	0.6221
-9.888	32.54	20.89059	0.24707	55.7347	4.283142	17.33572	2.617213	0.6215
-10.189	32.54	20.87323	0.250429	56.45348	4.397363	17.55929	2.650965	0.6132
-10.511	32.54	20.87323	0.209224	57.77123	3.759573	17.96916	2.712845	0.7339
-10.842	32.54	20.85586	0.211708	58.96919	3.883099	18.34178	2.769099	0.7253
-11.164	32.54	20.8385	0.209976	60.76614	3.968692	18.9007	2.853481	0.7313
-11.495	32.54	20.8385	0.213235	60.40675	4.006444	18.78891	2.836605	0.7201
-11.807	32.54	20.82113	0.216026	59.68797	4.010592	18.56535	2.802852	0.7108
-12.128	32.54	20.82113	0.22114	58.13062	3.998419	18.08095	2.729721	0.6944
-12.469	32.54	20.82113	0.232645	55.25551	3.998385	17.18667	2.594711	0.6600
-12.811	32.54	20.82113	0.243025	53.09918	4.013798	16.51597	2.493453	0.6318
-13.113	32.54	20.80377	0.251359	51.54184	4.029678	16.03158	2.420322	0.6109
-13.415	32.54	20.80377	0.260337	50.34387	4.076603	15.65896	2.364068	0.5898
-13.688	32.54	20.80377	0.273294	48.78653	4.147116	15.17456	2.290938	0.5619
-13.951	32.54	20.78641	0.277421	49.14591	4.240755	15.28635	2.307813	0.5535
-14.214	32.54	20.78641	0.274651	49.86469	4.259816	15.50991	2.341566	0.5591
-14.478	32.54	20.78641	0.266523	51.18245	4.242995	15.91979	2.403446	0.5761
-14.751	32.54	20.78641	0.26435	50.70326	4.168994	15.77074	2.380944	0.5809
-15.034	32.54	20.78641	0.264966	49.5053	4.079973	15.39813	2.32469	0.5795
-15.307	32.54	20.78641	0.269133	47.70836	3.993724	14.83921	2.240308	0.5705
-15.590	32.54	20.76904	0.263878	47.58856	3.905903	14.80195	2.234683	0.5819
-15.882	32.54	20.76904	0.262352	47.10938	3.844222	14.6529	2.212181	0.5853
-16.195	32.54	20.76904	0.263985	46.3906	3.809121	14.42934	2.178428	0.5817
-16.497	32.54	20.76904	0.263127	46.6302	3.816356	14.50385	2.18968	0.5836
-16.840	32.54	20.76904	0.265771	46.6302	3.854707	14.50386	2.18968	0.5778
-17.148	32.54	20.76904	0.265726	47.34897	3.913463	14.72742	2.223432	0.5779
-17.469	32.54	20.76904	0.268278	47.46877	3.961037	14.76468	2.229058	0.5724
-17.783	32.54	20.76904	0.265867	48.54693	4.014606	15.10004	2.279686	0.5776
-18.016	32.54	20.76904	0.25976	50.22408	4.057891	15.6217	2.358443	0.5911

-18.243	32.54	20.76904	0.26208	49.98449	4.074598	15.54718	2.347192	0.5859
-18.519	32.54	20.78641	0.270153	48.42714	4.069251	15.06278	2.274061	0.5684
-18.800	32.54	20.78641	0.275081	47.10938	4.030732	14.6529	2.212181	0.5582
-19.093	32.54	20.78641	0.277257	46.03121	3.969642	14.31755	2.161552	0.5538
-19.395	32.54	20.78641	0.281856	44.11448	3.867449	13.72136	2.071546	0.5448
-19.733	32.54	20.78641	0.287649	41.71856	3.732567	12.97614	1.959037	0.5338
-20.076	32.54	20.76904	0.29546	38.84345	3.569714	12.08187	1.824026	0.5197
-20.400	32.54	20.76904	0.295941	36.68712	3.377032	11.41116	1.722769	0.5189
-20.724	32.54	20.76904	0.298306	34.05161	3.159483	10.59141	1.599009	0.5148
-21.052	32.54	20.76904	0.288162	32.61405	2.923198	10.14427	1.531504	0.5329
-21.438	32.54	20.76904	0.259068	32.85364	2.64736	10.2188	1.542754	0.5927
-21.682	32.54	20.78641	0.234696	33.45262	2.44204	10.4051	1.570882	0.6543
-21.936	32.54	20.78641	0.219813	33.21303	2.270799	10.33058	1.559631	0.6986
-22.219	32.54	20.80377	0.211125	32.61405	2.141708	10.14428	1.531504	0.7273
-22.532	32.54	20.80377	0.201818	32.37446	2.032258	10.06975	1.520253	0.7609
-22.825	32.54	20.82113	0.193965	32.01507	1.931492	9.957968	1.503377	0.7917
-23.128	32.54	20.82113	0.188744	31.53588	1.851374	9.808921	1.480875	0.8136
-23.451	32.54	20.82113	0.184973	30.9369	1.779924	9.622614	1.452747	0.8301
-23.774	32.54	20.8385	0.184508	30.09833	1.727324	9.361786	1.41337	0.8322
-24.106	32.54	20.8385	0.184595	29.37955	1.686872	9.138214	1.379617	0.8318
-24.409	32.54	20.85586	0.179806	29.49935	1.64981	9.175478	1.385242	0.8540
-24.732	32.54	20.85586	0.178694	28.90037	1.606314	8.989172	1.357115	0.8593
-25.055	32.54	20.85586	0.182837	27.58261	1.56861	8.579296	1.295235	0.8398
-25.368	32.54	20.87323	0.192632	25.66588	1.537805	7.983115	1.205229	0.7971
-25.671	32.54	20.87323	0.191295	25.42628	1.512874	7.908591	1.193978	0.8027
-25.925	32.54	20.87323	0.179671	26.38465	1.474503	8.206682	1.238981	0.8546
-26.170	32.54	20.89059	0.177178	26.14506	1.440837	8.13216	1.22773	0.8667
-26.424	32.54	20.90796	0.177972	25.42628	1.407506	7.908591	1.193978	0.8628
-26.698	32.54	20.90796	0.181311	24.46791	1.379868	7.610502	1.148974	0.8469
-27.001	32.54	20.92532	0.182575	23.68175	1.344842	7.365974	1.112057	0.8410
-27.383	32.54	20.92532	0.183824	22.74585	1.300529	7.074868	1.068109	0.8353
-27.735	32.54	20.94268	0.181323	22.364	1.2613	6.9561	1.050178	0.8469
-28.029	32.54	20.94268	0.181025	21.72758	1.223394	6.758144	1.020292	0.8482
-28.362	32.54	20.96005	0.181912	21.06121	1.191686	6.550881	0.989001	0.8441
-28.675	32.54	20.96005	0.184091	20.29003	1.161799	6.311012	0.952787	0.8341
-29.018	32.54	20.96005	0.185419	19.55627	1.127864	6.082784	0.918331	0.8281
-29.380	32.54	20.97741	0.185249	19.02468	1.0962	5.917438	0.893369	0.8289
-29.733	32.54	20.99478	0.188191	18.246	1.068025	5.675235	0.856803	0.8159
-30.095	32.54	21.01214	0.188908	17.76682	1.043944	5.526192	0.834301	0.8128
-30.438	32.54	21.01214	0.190466	17.25769	1.022388	5.36783	0.810394	0.8062
-30.771	32.54	21.0295	0.189147	17.07799	1.004736	5.311941	0.801955	0.8118
-31.104	32.54	21.04687	0.18747	16.93574	0.987536	5.267693	0.795275	0.8191
-31.447	32.54	21.04687	0.190318	16.4865	0.975945	5.127962	0.77418	0.8068
-31.790	32.54	21.04687	0.194817	15.96988	0.967709	4.967272	0.74992	0.7882
-32.143	32.54	21.06423	0.20787	14.92166	0.964773	4.641235	0.700697	0.7387
-32.466	32.54	21.06423	0.215016	14.4275	0.964892	4.487531	0.677492	0.7141
-32.780	32.54	21.0816	0.218213	14.26278	0.968057	4.436297	0.669757	0.7037
-33.103	32.54	21.0816	0.225907	13.88842	0.975887	4.319855	0.652178	0.6797
-33.417	32.54	21.0816	0.233377	13.64134	0.990218	4.243002	0.640576	0.6580
-33.740	32.54	21.0816	0.242205	13.42421	1.011319	4.175467	0.630379	0.6340
-34.074	32.54	21.0816	0.255543	13.07231	1.039043	4.066012	0.613855	0.6009
-34.397	32.54	21.09896	0.265471	12.90759	1.065806	4.014778	0.60612	0.5784
-34.721	32.54	21.0816	0.284224	12.376	1.094101	3.849429	0.581157	0.5403
-35.054	32.54	21.0816	0.303281	11.92676	1.125081	3.709699	0.560062	0.5063
-35.378	32.54	21.06423	0.330479	11.35024	1.166717	3.53038	0.532989	0.4646
-35.701	32.54	21.06423	0.357604	10.91598	1.214175	3.395307	0.512597	0.4294
-36.015	32.54	21.04687	0.382213	10.609	1.261236	3.299824	0.498182	0.4017
-36.310	32.54	21.04687	0.407188	10.33197	1.308563	3.213658	0.485173	0.3771
-36.584	32.54	21.01214	0.449589	9.673097	1.352687	3.00872	0.454233	0.3415
-36.859	32.54	20.97741	0.482845	9.201399	1.381904	2.862003	0.432083	0.3180
-37.124	32.54	20.92532	0.533307	8.460161	1.403371	2.631449	0.397276	0.2879
-37.389	32.54	20.85586	0.560384	8.10826	1.413285	2.521994	0.380751	0.2740
-37.674	32.54	20.76904	0.569834	7.928566	1.405269	2.466101	0.372313	0.2695
-37.968	32.54	20.68222	0.572605	7.711435	1.37343	2.398565	0.362117	0.2682
-38.282	32.54	20.5954	0.587547	7.284662	1.331275	2.265821	0.342076	0.2613
-38.596	32.54	20.52594	0.575987	7.089993	1.270207	2.205271	0.332935	0.2666
-38.920	32.54	20.45649	0.5445	6.985171	1.183016	2.172668	0.328012	0.2820
-39.225	32.54	20.42176	0.518637	6.827939	1.101461	2.123762	0.320629	0.2961
-39.529	32.54	20.38703	0.502471	6.565885	1.026172	2.042253	0.308323	0.3056
-39.814	32.54	20.3523	0.47169	6.446089	0.945734	2.004992	0.302698	0.3255
-40.108	32.54	20.33494	0.466849	6.004341	0.871883	1.86759	0.281954	0.3289

-40.393	32.54	20.31757	0.469284	5.555105	0.810857	1.72786	0.260859	0.3272
-40.688	32.54	20.28284	0.473138	5.143306	0.756913	1.599774	0.241521	0.3245
-40.973	32.54	20.26548	0.485864	4.738995	0.716171	1.474017	0.222536	0.3160
-41.218	32.54	20.24812	0.496934	4.42453	0.683883	1.376206	0.207769	0.3090
-41.493	32.54	20.23075	0.506942	4.154988	0.655156	1.292367	0.195112	0.3029
-41.759	32.54	20.21339	0.508439	3.967807	0.627488	1.234147	0.186322	0.3020
-42.044	32.54	20.21339	0.496705	3.855498	0.595655	1.199214	0.181048	0.3091
-42.328	32.54	20.19602	0.501537	3.57847	0.558234	1.113047	0.168039	0.3062
-42.604	32.54	20.19602	0.491311	3.391288	0.518248	1.054826	0.159249	0.3125
-42.879	32.54	20.17866	0.485056	3.19662	0.48228	0.994276	0.150108	0.3166
-43.154	32.54	20.17866	0.497448	2.919591	0.451737	0.90811	0.137099	0.3087
-43.429	32.54	20.16129	0.489853	2.784821	0.424306	0.866191	0.130771	0.3135
-43.724	32.54	20.16129	0.504128	2.552716	0.400276	0.793997	0.119871	0.3046
-44.009	32.54	20.16129	0.489002	2.477843	0.376878	0.770708	0.116356	0.3140
-44.294	32.54	20.14393	0.477933	2.395483	0.356103	0.745091	0.112488	0.3213
-44.570	32.54	20.14393	0.497551	2.178353	0.337118	0.677555	0.102292	0.3086
-44.865	32.54	20.14393	0.489437	2.088506	0.317943	0.649609	0.098073	0.3137
-45.130	32.54	20.14393	0.486867	1.991171	0.301533	0.619334	0.093502	0.3154
-45.415	32.54	20.14393	0.501474	1.818964	0.283719	0.565771	0.085416	0.3062
-45.691	32.54	20.14393	0.496614	1.729117	0.267091	0.537825	0.081197	0.3092
-45.966	32.54	20.14393	0.511756	1.571885	0.250207	0.488919	0.073813	0.3001
-46.242	32.54	20.12657	0.503198	1.511987	0.236648	0.470288	0.071	0.3052
-46.517	32.54	20.12657	0.535603	1.33978	0.223199	0.416725	0.062914	0.2867
-46.793	32.54	20.12657	0.531033	1.279882	0.211401	0.398095	0.060101	0.2892
-47.068	32.54	20.12657	0.561054	1.145111	0.199834	0.356175	0.053773	0.2737
-47.324	32.54	20.12657	0.568723	1.077726	0.190645	0.335216	0.050608	0.2700
-47.590	32.54	20.12657	0.588544	0.987879	0.180842	0.30727	0.046389	0.2609
-47.855	32.54	20.12657	0.635396	0.868083	0.171562	0.270008	0.040764	0.2417
-48.121	32.54	20.1092	0.591615	0.883057	0.162497	0.274666	0.041467	0.2595
-48.387	32.54	20.1092	0.627058	0.785723	0.153248	0.244391	0.036896	0.2449
-48.662	32.54	20.1092	0.551321	0.823159	0.141158	0.256036	0.038654	0.2785
-48.948	32.54	20.1092	0.595047	0.703363	0.130181	0.218774	0.033029	0.2581
-49.223	32.54	20.1092	0.530931	0.725825	0.119863	0.225761	0.034084	0.2892
-49.509	32.54	20.1092	0.561496	0.628491	0.109764	0.195486	0.029513	0.2735
-49.804	32.54	20.1092	0.537737	0.613516	0.102615	0.190828	0.02881	0.2856
-50.090	32.54	20.09184	0.56568	0.538644	0.094774	0.16754	0.025294	0.2714
-50.395	32.54	20.1092	0.568182	0.523669	0.092547	0.162882	0.024591	0.2703
-50.701	32.54	20.09184	0.5887	0.478746	0.087663	0.148909	0.022481	0.2608
-51.016	32.54	20.09184	0.541031	0.486233	0.081824	0.151238	0.022833	0.2838
-51.331	32.54	20.09184	0.573181	0.418847	0.074673	0.130278	0.019668	0.2679
-51.636	32.54	20.09184	0.486826	0.433822	0.06569	0.134936	0.020372	0.3154
-51.932	32.54	20.09184	0.535143	0.343975	0.057255	0.10699	0.016153	0.2869
-52.188	32.54	20.09184	0.463005	0.314026	0.045224	0.097675	0.014746	0.3316
-52.237	32.54	20.09184	0.326886	0.329	0.033451	0.102332	0.015449	0.4697
-52.237	32.54	20.09184	0.318197	0.254128	0.025151	0.079044	0.011933	0.4826
-52.247	32.54	20.09184	0.208256	0.291564	0.018886	0.090688	0.013691	0.7373
-3.261	57.58	22.10609	0.104013	433.332	11.18612	107.5455	19.19344	0.6090
-3.689	57.58	22.07136	0.069189	337.6149	10.31038	149.0175	14.95387	0.9156
-4.029	57.58	22.03663	0.090763	345.7611	9.453404	104.1547	15.31469	0.6979
-4.389	57.58	22.01926	0.103927	479.0941	8.357714	80.41924	21.22037	0.6095
-4.719	57.58	22.0019	0.06641	334.8596	7.500911	112.9484	14.83183	0.9539
-5.002	57.58	21.98454	0.063346	258.5495	6.928243	109.3713	11.45185	1.0000
-5.284	57.58	21.98454	0.061288	363.1315	6.723739	109.7067	16.08407	1.0336
-5.566	57.58	21.98454	0.073614	351.6311	6.394542	86.86546	15.57469	0.8605
-5.848	57.58	21.96717	0.068546	352.7092	5.954316	86.86549	15.62244	0.9241
-6.169	57.58	21.94981	0.057759	279.2742	5.923359	102.5525	12.36981	1.0967
-6.490	57.58	21.93244	0.055166	279.2742	5.774583	104.6764	12.36981	1.1483
-6.831	57.58	21.93244	0.066196	329.7084	5.306144	80.15843	14.60367	0.9570
-7.142	57.58	21.91508	0.052287	336.5368	5.266741	100.7267	14.90612	1.2115
-7.492	57.58	21.91508	0.04883	257.7109	5.646275	115.6313	11.41471	1.2973
-7.784	57.58	21.89771	0.05146	323.8384	5.693445	110.6382	14.34367	1.2310
-8.106	57.58	21.89771	0.059775	371.7568	5.386154	90.10723	16.46611	1.0597
-8.437	57.58	21.89771	0.061069	355.7041	5.140951	84.18261	15.75509	1.0373
-8.777	57.58	21.89771	0.064284	289.6965	5.011606	77.96001	12.83144	0.9854
-9.079	57.58	21.89771	0.064998	270.6489	4.965542	76.39501	11.98777	0.9746
-9.381	57.58	21.89771	0.060058	250.643	4.88802	81.38802	11.10165	1.0547
-9.673	57.58	21.89771	0.055632	245.6115	4.917452	88.39314	10.87879	1.1387
-9.985	57.58	21.89771	0.056468	261.6642	5.136553	90.96424	11.58981	1.1218
-10.248	57.58	21.89771	0.058566	284.1859	5.080774	86.7537	12.58736	1.0816
-10.491	57.58	21.91508	0.05932	292.4518	4.863292	81.98418	12.95348	1.0679
-10.764	57.58	21.91508	0.053958	278.9148	4.689075	86.90273	12.35389	1.1740

-11.047	57.58	21.91508	0.053285	263.5809	4.704039	88.28136	11.67471	1.1888
-11.290	57.58	21.91508	0.053186	279.394	4.750786	89.32474	12.37511	1.1910
-11.446	57.58	21.91508	0.053567	283.8265	4.86867	90.88966	12.57144	1.1826
-11.602	57.58	21.93244	0.060876	287.1808	5.002188	82.17053	12.72001	1.0406
-11.826	57.58	21.93244	0.060451	292.2122	5.055096	83.62369	12.94286	1.0479
-12.070	57.58	21.93244	0.064385	264.1799	5.08902	79.04057	11.70124	0.9839
-12.382	57.58	21.93244	0.065399	268.852	4.966894	75.94786	11.90818	0.9686
-12.655	57.58	21.93244	0.067189	254.1171	4.809944	71.58831	11.25553	0.9428
-12.967	57.58	21.93244	0.060524	244.174	4.786068	79.07782	10.81512	1.0466
-13.230	57.58	21.93244	0.058136	230.1578	4.868014	83.73549	10.19431	1.0896
-13.483	57.58	21.93244	0.062148	254.2368	4.958492	79.78582	11.26083	1.0193
-13.785	57.58	21.93244	0.064437	269.2114	5.011528	77.77367	11.9241	0.9831
-14.078	57.58	21.93244	0.064132	256.513	4.975828	77.58735	11.36165	0.9877
-14.400	57.58	21.94981	0.07029	250.044	4.911481	69.87426	11.07512	0.9012
-14.683	57.58	21.93244	0.071633	249.445	4.893173	68.30932	11.04859	0.8843
-15.014	57.58	21.94981	0.076445	224.6472	4.934205	64.54588	9.950229	0.8286
-15.336	57.58	21.94981	0.072467	219.6158	5.041997	69.57617	9.727375	0.8741
-15.677	57.58	21.94981	0.070447	207.5164	5.16653	73.33957	9.19146	0.8992
-15.999	57.58	21.94981	0.080129	223.6888	5.118237	63.87521	9.907779	0.7906
-16.321	57.58	21.94981	0.091745	235.7882	4.985086	54.33629	10.44369	0.6905
-16.604	57.58	21.94981	0.085961	205.36	4.885384	56.83279	9.095947	0.7369
-16.921	57.58	21.94981	0.086791	174.6922	4.829112	55.64044	7.737588	0.7299
-17.186	57.58	21.94981	0.092724	182.7186	4.761876	51.35538	8.093099	0.6832
-17.460	57.58	21.94981	0.093965	178.8851	4.734569	50.38658	7.923303	0.6741
-17.725	57.58	21.94981	0.095994	165.1085	4.622175	48.15087	7.3131	0.6599
-17.991	57.58	21.94981	0.095318	161.9938	4.472427	46.92127	7.175141	0.6646
-18.257	57.58	21.94981	0.085229	154.8061	4.326169	50.7592	6.856779	0.7432
-18.528	57.58	21.94981	0.098092	150.8528	5.055813	51.54166	6.681677	0.6458
-18.785	57.58	21.94981	0.099736	163.1918	5.062535	50.7592	7.228204	0.6351
-19.034	57.58	21.94981	0.104508	165.7075	5.008781	47.92729	7.339631	0.6061
-19.306	57.58	21.94981	0.099542	163.1918	4.908	49.306	7.228204	0.6364
-19.574	57.58	21.94981	0.092957	154.0873	4.7669	51.28082	6.824941	0.6815
-19.859	57.58	21.94981	0.08773	158.5198	4.645961	52.95759	7.021269	0.7221
-20.156	57.58	21.94981	0.088642	164.8689	4.572055	51.57893	7.302487	0.7146
-20.448	57.58	21.94981	0.08242	170.2598	4.518301	54.82064	7.541265	0.7686
-20.750	57.58	21.94981	0.074855	165.8273	4.457834	59.55287	7.344938	0.8462
-21.043	57.58	21.94981	0.076301	176.2496	4.370488	57.27993	7.806569	0.8302
-21.399	57.58	21.94981	0.077272	191.4637	4.29658	55.60316	8.480443	0.8198
-21.633	57.58	21.94981	0.076241	184.1561	4.256267	55.82673	8.156769	0.8309
-21.926	57.58	21.94981	0.073949	178.7653	4.249548	57.46623	7.917996	0.8566
-22.219	57.58	21.93244	0.07242	179.4841	4.283142	59.14299	7.949834	0.8747
-22.473	57.58	21.94981	0.071393	184.7551	4.323456	60.55893	8.183301	0.8873
-22.747	57.58	21.94981	0.07455	190.1459	4.336891	58.17418	8.422074	0.8497
-22.992	57.58	21.94981	0.079554	194.6982	4.316737	54.26175	8.623707	0.7963
-23.236	57.58	21.94981	0.08296	187.0312	4.269704	51.46714	8.284115	0.7636
-23.529	57.58	21.94981	0.082666	174.4526	4.23611	51.24357	7.726975	0.7663
-23.842	57.58	21.94981	0.079584	165.4679	4.229391	53.14391	7.329019	0.7960
-24.155	57.58	21.94981	0.078826	164.7491	4.23611	53.74009	7.297181	0.8036
-24.468	57.58	21.94981	0.079351	170.8587	4.249548	53.55378	7.567792	0.7983
-24.771	57.58	21.94981	0.076131	172.7755	4.289861	56.34839	7.652692	0.8321
-25.064	57.58	21.94981	0.073912	172.1765	4.390645	59.40383	7.626161	0.8570
-25.201	57.58	21.94981	0.073081	181.1612	4.518301	61.82578	8.024117	0.8668
-25.289	57.58	21.94981	0.074182	190.9845	4.652679	62.72006	8.459218	0.8539
-25.495	57.58	21.94981	0.077164	198.7712	4.753464	61.60224	8.804112	0.8209
-25.778	57.58	21.94981	0.077986	201.6463	4.827371	61.90032	8.931457	0.8123
-26.023	57.58	21.94981	0.075403	198.0525	4.914717	65.17933	8.772278	0.8401
-26.268	57.58	21.94981	0.074135	199.0108	5.055813	68.1975	8.814724	0.8545
-26.346	57.58	21.94981	0.078627	209.5529	5.183473	65.92457	9.281662	0.8056
-26.395	57.58	21.94981	0.079032	219.2564	5.304411	67.11691	9.711456	0.8015
-26.502	57.58	21.96717	0.075973	211.9488	5.492543	72.29629	9.387783	0.8338
-26.649	57.58	21.96717	0.074364	215.7823	5.714263	76.84213	9.557579	0.8518
-26.727	57.58	21.96717	0.073213	232.4339	5.969583	81.5371	10.29512	0.8652
-26.698	57.58	21.96717	0.080115	247.0491	6.171146	77.02843	10.94247	0.7907
-26.571	57.58	21.96717	0.088421	262.1434	6.204743	70.17237	11.61104	0.7164
-26.522	57.58	21.96717	0.090342	247.6481	6.150989	68.0857	10.969	0.7012
-26.590	57.58	21.96717	0.073378	225.6056	5.162772	70.35867	9.992679	0.8633
-26.718	57.58	21.96717	0.072904	218.897	5.344039	73.30234	9.695537	0.8689
-26.816	57.58	21.96717	0.073098	226.2046	5.66876	77.55011	10.01921	0.8666
-26.894	57.58	21.94981	0.080101	235.6684	5.832786	72.81791	10.43839	0.7908
-26.992	57.58	21.96717	0.084553	249.3252	5.797781	68.57014	11.04328	0.7492
-27.148	57.58	21.96717	0.08421	234.1111	5.582904	66.29716	10.36941	0.7522

-27.334	57.58	21.94981	0.079969	220.4543	5.271938	65.92457	9.764514	0.7921
-27.452	57.58	21.94981	0.086379	213.1468	6.164428	71.36471	9.440846	0.7333
-27.501	57.58	21.96717	0.084937	211.9488	6.245057	73.5259	9.387783	0.7458
-27.530	57.58	21.94981	0.071236	229.439	5.301405	74.42017	10.16247	0.8892
-27.638	57.58	21.96717	0.077218	236.3872	5.510618	71.36472	10.47023	0.8204
-27.775	57.58	21.96717	0.082351	239.2623	5.603856	68.04848	10.59757	0.7692
-27.872	57.58	21.94981	0.080555	229.439	5.349542	66.40896	10.16247	0.7864
-27.941	57.58	21.94981	0.077916	218.7772	5.400743	69.31533	9.690231	0.8130
-28.010	57.58	21.94981	0.081534	213.5062	5.791314	71.02935	9.456764	0.7769
-28.029	57.58	21.94981	0.083271	222.8503	6.324273	75.94784	9.87064	0.7607
-27.990	57.58	21.94981	0.090924	228.3609	6.841104	75.2399	10.11472	0.6967
-27.902	57.58	21.94981	0.093675	244.174	7.013231	74.86731	10.81512	0.6762
-27.833	57.58	21.94981	0.090968	241.8978	6.807158	74.83003	10.7143	0.6964
-27.902	57.58	21.94981	0.088585	240.6999	6.46377	72.96698	10.66125	0.7151
-28.029	57.58	21.94981	0.09127	240.5801	6.255027	68.53287	10.65594	0.6940
-28.166	57.58	21.93244	0.093263	234.5903	6.186529	66.33444	10.39064	0.6792
-28.254	57.58	21.94981	0.092384	220.3345	6.204	67.15418	9.759208	0.6857
-28.293	57.58	21.94981	0.093949	213.2666	6.190016	65.88732	9.446152	0.6743
-28.313	57.58	21.94981	0.093946	215.9021	6.133812	65.2911	9.562885	0.6743
-28.381	57.58	21.94981	0.090831	211.829	5.937231	65.36565	9.382477	0.6974
-28.499	57.58	21.94981	0.085921	209.9123	5.699519	66.33444	9.297581	0.7373
-28.597	57.58	21.93244	0.08136	210.1519	5.396989	66.33445	9.308193	0.7786
-28.646	57.58	21.94981	0.076048	213.2666	5.143776	67.63861	9.446152	0.8330
-28.773	57.58	21.94981	0.075191	213.2666	5.125032	68.16022	9.446152	0.8425
-28.959	57.58	21.93244	0.077316	217.4594	5.229567	67.63856	9.631862	0.8193
-29.116	57.58	21.93244	0.080607	219.1366	5.31395	65.92458	9.70615	0.7859
-29.116	57.58	21.94981	0.082929	217.4594	5.318711	64.13599	9.631862	0.7639
-29.135	57.58	21.93244	0.082313	211.9488	5.29152	64.28505	9.387783	0.7696
-29.126	57.58	21.93244	0.081673	206.1986	5.268586	64.50865	9.133091	0.7756
-29.145	57.58	21.93244	0.081015	206.6778	5.253345	64.84398	9.154316	0.7819
-29.223	57.58	21.93244	0.079184	207.3966	5.231956	66.07358	9.186154	0.8000
-29.390	57.58	21.93244	0.077551	208.4747	5.254105	67.75039	9.233906	0.8168
-29.596	57.58	21.93244	0.078396	212.428	5.299707	67.60135	9.409008	0.8080
-29.860	57.58	21.93244	0.084079	217.8188	5.35175	63.6516	9.647781	0.7534
-30.193	57.58	21.93244	0.088164	217.3396	5.358813	60.78249	9.626556	0.7185
-30.555	57.58	21.93244	0.088992	204.6413	5.34613	60.07453	9.064114	0.7118
-30.937	57.58	21.93244	0.090712	195.417	5.415664	59.7019	8.655545	0.6983
-31.261	57.58	21.93244	0.089958	193.1408	5.444436	60.52164	8.554726	0.7042
-31.574	57.58	21.93244	0.090534	191.9429	5.432033	59.99999	8.501668	0.6997
-31.907	57.58	21.91508	0.091689	194.5784	5.450069	59.44107	8.618401	0.6909
-32.250	57.58	21.91508	0.090162	192.9012	5.544107	61.49048	8.544113	0.7026
-32.584	57.58	21.91508	0.091839	191.1043	5.647221	61.49045	8.464524	0.6898
-32.927	57.58	21.91508	0.092213	197.6931	5.769865	62.57104	8.75636	0.6870
-33.250	57.58	21.89771	0.096729	197.6931	5.875848	60.74521	8.75636	0.6549
-33.554	57.58	21.89771	0.099432	201.1672	5.977053	60.1118	8.910237	0.6371
-33.907	57.58	21.88035	0.106082	195.2972	6.084258	57.35445	8.650239	0.5971
-34.279	57.58	21.88035	0.138431	193.2606	6.2168	44.90914	8.560032	0.4576
-34.623	57.58	21.86299	0.134362	184.3957	6.369525	47.40563	8.167382	0.4715
-34.936	57.58	21.86299	0.129357	144.3838	6.508188	50.31203	6.395147	0.4897
-35.201	57.58	21.84562	0.139207	152.4102	6.547306	47.03305	6.750658	0.4551
-35.456	57.58	21.82826	0.146218	161.7542	6.446663	44.08939	7.164529	0.4332
-35.741	57.58	21.82826	0.146757	151.2122	6.229829	42.4499	6.697595	0.4316
-35.986	57.58	21.82826	0.138503	141.7483	5.972335	43.12062	6.278414	0.4574
-36.251	57.58	21.82826	0.129448	136.4773	5.78928	44.72285	6.044947	0.4894
-36.545	57.58	21.81089	0.124474	138.6336	5.641034	45.31901	6.140455	0.5089
-36.830	57.58	21.81089	0.11974	143.7848	5.573742	46.54866	6.368616	0.5290
-37.114	57.58	21.81089	0.125528	145.7016	5.670104	45.16996	6.453516	0.5046
-37.399	57.58	21.81089	0.132367	149.6548	5.707722	43.1206	6.628614	0.4786
-37.693	57.58	21.79353	0.135196	145.2224	5.698732	42.15179	6.432291	0.4686
-37.968	57.58	21.79353	0.128858	138.6336	5.806115	45.0582	6.140455	0.4916
-38.233	57.58	21.77617	0.131635	135.5189	5.96557	45.31903	6.002497	0.4812
-38.528	57.58	21.77617	0.137684	144.863	6.162752	44.76012	6.416372	0.4601
-38.842	57.58	21.77617	0.148487	145.7016	6.341998	42.71074	6.453516	0.4266
-39.156	57.58	21.77617	0.157959	143.9046	6.434597	40.73587	6.373922	0.4010
-39.470	57.58	21.77617	0.157332	137.3158	6.473542	41.14574	6.082086	0.4026
-39.774	57.58	21.7588	0.162832	130.9666	6.481426	39.80432	5.800863	0.3890
-40.030	57.58	21.7588	0.170995	132.2844	6.500507	38.01579	5.859232	0.3705
-40.275	57.58	21.7588	0.176772	127.9717	6.568633	37.15877	5.668211	0.3583
-40.521	57.58	21.7588	0.183886	122.2215	6.647962	36.15272	5.413519	0.3445
-40.786	57.58	21.7588	0.190639	119.4662	6.686107	35.07214	5.29148	0.3323
-41.051	57.58	21.74144	0.192384	116.2317	6.797511	35.33297	5.148215	0.3293

-41.316	57.58	21.74144	0.198174	112.7576	6.9504	35.07214	4.994338	0.3196
-41.592	57.58	21.72407	0.212614	113.5962	7.290462	34.28965	5.031481	0.2979
-41.886	57.58	21.72407	0.230787	112.7576	7.664229	33.20907	4.994338	0.2745
-42.171	57.58	21.70671	0.242858	110.2419	7.911242	32.57563	4.882911	0.2608
-42.466	57.58	21.68934	0.257049	106.7678	8.162804	31.75588	4.729033	0.2464
-42.751	57.58	21.65462	0.274587	104.7313	8.484432	30.89885	4.638831	0.2307
-43.056	57.58	21.60252	0.29431	102.0958	8.852592	30.07911	4.522098	0.2152
-43.351	57.58	21.56779	0.314108	99.34048	9.272513	29.52019	4.400057	0.2017
-43.646	57.58	21.53307	0.335301	96.70496	9.773196	29.14758	4.283323	0.1889
-43.940	57.58	21.49834	0.361752	94.90803	10.26112	28.36509	4.203732	0.1751
-44.216	57.58	21.46361	0.339862	93.71006	10.75464	31.6441	4.150671	0.1864
-44.511	57.58	21.42888	0.358652	91.19434	11.21559	31.27148	4.039243	0.1766
-44.766	57.58	21.41152	0.370755	101.7364	11.67693	31.49505	4.506179	0.1709
-45.022	57.58	21.37679	0.381412	100.5384	12.11208	31.75587	4.453116	0.1661
-45.307	57.58	21.34206	0.405062	101.2572	12.47066	30.78708	4.484954	0.1564
-45.632	57.58	21.28997	0.440325	102.0958	12.80159	29.07306	4.522098	0.1439
-46.015	57.58	21.25524	0.490703	98.98109	13.15091	26.80012	4.384139	0.1291
-46.360	57.58	21.20315	0.544212	93.47047	13.53047	24.86252	4.140059	0.1164
-46.674	57.58	21.16842	0.583304	86.16291	13.89384	23.8192	3.816387	0.1086
-46.950	57.58	21.15105	0.625666	79.93351	14.15684	22.62684	3.54047	0.1012
-47.235	57.58	21.11633	0.633294	76.57922	14.21146	22.44054	3.3919	0.1000
-47.462	57.58	21.09896	0.634654	72.74574	14.24198	22.44053	3.222105	0.0998
-47.717	57.58	21.0816	0.639558	72.14677	14.20903	22.21696	3.195575	0.0990
-48.013	57.58	21.06423	0.648025	72.14677	14.1074	21.76982	3.195575	0.0978
-48.308	57.58	21.0295	0.654417	71.42799	14.0027	21.39721	3.163738	0.0968
-48.603	57.58	21.0295	0.660754	69.99043	13.96595	21.13638	3.100065	0.0959
-48.899	57.58	21.01214	0.672755	68.79247	14.04413	20.87556	3.047004	0.0942
-49.194	57.58	20.99478	0.699442	67.9539	14.23636	20.35389	3.009861	0.0906
-49.489	57.58	20.99478	0.742907	67.11533	14.45669	19.45962	2.972719	0.0853
-49.795	57.58	20.97741	0.79202	65.43818	14.6451	18.49082	2.898433	0.0800
-50.090	57.58	20.97741	0.832897	62.56308	14.68715	17.63381	2.771087	0.0761
-50.405	57.58	20.96005	0.861846	59.44838	14.52324	16.85133	2.633129	0.0735
-50.710	57.58	20.94268	0.877731	56.69307	14.20222	16.18062	2.511089	0.0722
-51.006	57.58	20.92532	0.886596	54.17735	13.8171	15.58444	2.399661	0.0714
-51.291	57.58	20.92532	0.890831	52.02102	13.41838	15.06278	2.304151	0.0711
-51.597	57.58	20.90796	0.891978	50.10428	13.07006	14.6529	2.219253	0.0710
-51.892	57.58	20.90796	0.89152	48.42714	12.66473	14.20577	2.144968	0.0711
-52.188	57.58	20.89059	0.901661	47.10938	12.23763	13.57232	2.086601	0.0703
-52.474	57.58	20.87323	0.91097	45.67183	11.88876	13.05066	2.022928	0.0695
-52.750	57.58	20.85586	0.900522	43.63529	11.55108	12.82709	1.932724	0.0703
-53.035	57.58	20.8385	0.884357	41.95815	11.17896	12.64079	1.858439	0.0716
-53.331	57.58	20.82113	0.87352	41.23937	10.74905	12.30544	1.826603	0.0725
-53.637	57.58	20.80377	0.870798	40.64039	10.32618	11.8583	1.800072	0.0727
-53.932	57.58	20.78641	0.897967	39.56223	9.945711	11.07581	1.752318	0.0705
-54.228	57.58	20.76904	0.939723	38.12467	9.602842	10.2188	1.688644	0.0674
-54.524	57.58	20.73431	0.995104	35.60895	9.278868	9.324524	1.577216	0.0637
-54.810	57.58	20.71695	0.855274	32.85364	8.676128	10.14427	1.455176	0.0741
-55.106	57.58	20.69958	0.669159	29.97854	7.536145	11.26211	1.32783	0.0947
-55.382	57.58	20.66486	0.598507	32.61405	6.606654	11.03855	1.444564	0.1058
-55.658	57.58	20.64749	0.541761	36.20793	5.859134	10.81498	1.603747	0.1169
-55.826	57.58	20.61276	0.495012	35.48915	5.224427	10.55415	1.57191	0.1280
-55.983	57.58	20.56067	0.44491	34.77038	4.679065	10.51689	1.540074	0.1424
-56.112	57.58	20.52594	0.397191	33.93181	4.162413	10.47963	1.502931	0.1595
-56.131	57.58	20.47385	0.452649	33.81201	4.692993	10.36784	1.497625	0.1399
-56.092	57.58	20.43912	0.442156	33.69221	4.518301	10.21879	1.492319	0.1433
-56.072	57.58	20.42176	0.360811	33.33283	3.633275	10.06975	1.476401	0.1756
-56.062	57.58	20.38703	0.353198	32.85364	3.556612	10.06975	1.455176	0.1794
-56.072	57.58	20.36967	0.350904	32.37446	3.520443	10.03249	1.433952	0.1805
-56.082	57.58	20.3523	0.357043	32.37446	3.568726	9.995229	1.433952	0.1774
-56.092	57.58	20.33494	0.362118	32.25466	3.632945	10.03249	1.428646	0.1749
-4.321	72.24	21.74144	0.134603	803.0228	33.62018	249.7722	28.12626	0.7368
-4.642	72.24	21.74144	0.124332	743.6039	28.75678	231.2907	26.04509	0.7976
-5.002	72.24	21.74144	0.099173	829.8571	25.59835	258.1188	29.06615	1.0000
-5.332	72.24	21.7588	0.094967	793.4391	23.43698	246.7913	27.79059	1.0443
-5.634	72.24	21.74144	0.104888	670.7679	21.88336	208.6357	23.49397	0.9455
-5.945	72.24	21.74144	0.099521	624.7662	19.33967	194.3273	21.88274	0.9965
-6.247	72.24	21.7588	0.085953	628.5997	16.80542	195.5196	22.01701	1.1538
-6.607	72.24	21.7588	0.071681	728.27	16.2372	226.5211	25.50801	1.3835
-6.947	72.24	21.7588	0.09662	517.4289	15.55009	160.9411	18.1232	1.0264
-7.230	72.24	21.7588	0.090319	525.0958	14.75144	163.3258	18.39173	1.0980
-7.463	72.24	21.7588	0.066189	724.4365	14.91432	225.3287	25.37374	1.4983

-7.726	72.24	21.7588	0.050401	988.9464	15.50333	307.6019	34.63832	1.9677
-8.018	72.24	21.7588	0.07454	638.1833	14.79625	198.5005	22.35268	1.3305
-8.329	72.24	21.7588	0.082121	540.4297	13.80415	168.0953	18.92881	1.2076
-8.641	72.24	21.7588	0.070354	620.9327	13.58788	193.1349	21.74847	1.4096
-8.953	72.24	21.7588	0.052501	858.6082	14.02103	267.0615	30.07317	1.8890
-9.274	72.24	21.7588	0.069475	653.5173	14.12226	203.27	22.88976	1.4275
-9.615	72.24	21.7588	0.068331	655.434	13.93033	203.8662	22.95689	1.4514
-9.956	72.24	21.7588	0.05906	772.355	14.18807	240.2333	27.05211	1.6792
-10.297	72.24	21.7588	0.076742	603.6821	14.40981	187.7693	21.14426	1.2923
-10.638	72.24	21.7588	0.088971	507.8452	14.05394	157.9601	17.78752	1.1147
-10.979	72.24	21.7588	0.071203	611.349	13.53948	190.154	21.41279	1.3928
-11.310	72.24	21.7588	0.065394	682.2683	13.87748	212.2128	23.89678	1.5165
-11.631	72.24	21.7588	0.075336	611.349	14.32538	190.154	21.41279	1.3164
-11.943	72.24	21.77617	0.085867	530.8461	14.17781	165.1144	18.59314	1.1550
-12.265	72.24	21.7588	0.081503	527.0126	13.36018	163.922	18.45887	1.2168
-12.596	72.24	21.77617	0.07224	586.4315	13.17686	182.4037	20.54005	1.3728
-12.918	72.24	21.77617	0.080062	527.0126	13.124	163.922	18.45887	1.2387
-13.249	72.24	21.77617	0.070674	590.2649	12.97543	183.596	20.67431	1.4032
-13.581	72.24	21.77617	0.085813	484.8443	12.94116	150.806	16.98191	1.1557
-13.883	72.24	21.77617	0.085345	500.1783	13.27757	155.5754	17.51899	1.1620
-14.205	72.24	21.77617	0.080976	544.2632	13.70821	169.2876	19.06308	1.2247
-14.507	72.24	21.77617	0.084761	511.6787	13.48995	159.1525	17.92179	1.1700
-14.800	72.24	21.77617	0.087478	494.428	13.45304	153.7869	17.31758	1.1337
-15.102	72.24	21.77617	0.092496	467.5937	13.45263	145.4403	16.37769	1.0722
-15.385	72.24	21.79353	0.082489	511.6787	13.12834	159.1525	17.92179	1.2023
-15.668	72.24	21.79353	0.087407	461.8435	12.55621	143.6518	16.17629	1.1346
-15.931	72.24	21.79353	0.110808	357.7407	12.32975	111.2716	12.53004	0.8950
-16.234	72.24	21.79353	0.09405	415.722	12.16127	129.3062	14.56086	1.0545
-16.507	72.24	21.79353	0.081115	502.095	12.66785	156.1716	17.58612	1.2226
-16.874	72.24	21.81089	0.101254	394.7577	12.43249	122.7854	13.82658	0.9794
-17.156	72.24	21.81089	0.112636	331.3855	11.60981	103.0742	11.60694	0.8805
-17.486	72.24	21.81089	0.095754	380.8613	11.34327	118.4631	13.33985	1.0357
-17.773	72.24	21.81089	0.106987	337.6149	11.23492	105.0118	11.82512	0.9270
-18.072	72.24	21.81089	0.096359	381.8197	11.44377	118.7612	13.37342	1.0292
-18.354	72.24	21.81089	0.094726	397.8724	11.7228	123.7542	13.93567	1.0469
-18.635	72.24	21.81089	0.082439	461.6039	11.8363	143.5773	16.1679	1.2030
-18.913	72.24	21.81089	0.10061	374.7517	11.72733	116.5627	13.12586	0.9857
-19.190	72.24	21.82826	0.097458	366.0066	11.09484	113.8427	12.81956	1.0176
-19.511	72.24	21.82826	0.112248	294.6081	10.28587	91.63488	10.31879	0.8835
-19.805	72.24	21.81089	0.103273	312.0984	10.02522	97.07509	10.9314	0.9603
-20.086	72.24	21.82826	0.099585	321.682	9.96408	100.056	11.26707	0.9959
-20.361	72.24	21.82826	0.109083	279.6336	9.487722	86.97725	9.794302	0.9092
-20.649	72.24	21.82826	0.1142	256.513	9.111524	79.78581	8.984492	0.8684
-20.923	72.24	21.82826	0.1176	238.304	8.71674	74.12207	8.346713	0.8433
-21.281	72.24	21.82826	0.119658	223.8086	8.329807	69.61345	7.839004	0.8288
-21.545	72.24	21.82826	0.107683	236.6268	7.925502	73.60038	8.287968	0.9210
-21.819	72.24	21.82826	0.094599	261.9038	7.70631	81.46256	9.173307	1.0483
-22.092	72.24	21.82826	0.088482	273.2844	7.521219	85.00241	9.571918	1.1208
-22.366	72.24	21.82826	0.095621	248.4866	7.390466	77.28927	8.703363	1.0371
-22.669	72.24	21.82826	0.097013	237.5852	7.169079	73.89848	8.321536	1.0223
-22.962	72.24	21.82826	0.088101	255.6744	7.006236	79.52499	8.955119	1.1257
-23.246	72.24	21.82826	0.085031	267.055	7.063088	83.06481	9.35373	1.1663
-23.529	72.24	21.82826	0.09095	252.7993	7.151462	78.63071	8.854417	1.0904
-23.822	72.24	21.82826	0.10096	230.8766	7.250122	71.81183	8.086564	0.9823
-24.096	72.24	21.82826	0.112348	208.4747	7.285062	64.84401	7.301927	0.8827
-24.380	72.24	21.82826	0.112264	209.1935	7.30474	65.06752	7.327103	0.8834
-24.644	72.24	21.82826	0.106957	218.1782	7.258334	67.86217	7.641797	0.9272
-24.927	72.24	21.82826	0.101315	226.6837	7.1435	70.50768	7.939706	0.9789
-25.201	72.24	21.82826	0.101691	222.3711	7.033599	69.16632	7.788655	0.9752
-25.485	72.24	21.82826	0.09873	225.1264	6.913421	70.02333	7.885161	1.0045
-25.769	72.24	21.82826	0.106626	204.0423	6.767042	63.46528	7.14668	0.9301
-26.052	72.24	21.82826	0.112576	187.9896	6.582583	58.47229	6.584426	0.8809
-26.365	72.24	21.82826	0.101142	203.4433	6.400166	63.27902	7.1257	0.9805
-26.649	72.24	21.82826	0.103266	200.2088	6.430679	62.27295	7.01241	0.9604
-26.923	72.24	21.82826	0.105896	202.7245	6.677316	63.05541	7.100523	0.9365
-27.217	72.24	21.82826	0.113545	192.6617	6.804238	59.92552	6.748069	0.8734
-27.481	72.24	21.82826	0.118892	185.8333	6.872139	57.80158	6.508901	0.8341
-27.745	72.24	21.82826	0.120736	184.3957	6.924757	57.35444	6.458548	0.8214
-28.019	72.24	21.82826	0.126928	177.9267	7.024497	55.34233	6.231968	0.7813
-28.293	72.24	21.82826	0.123564	184.7551	7.100758	57.46624	6.471136	0.8026
-28.558	72.24	21.82826	0.125367	185.1145	7.218357	57.57804	6.483725	0.7911

-28.842	72.24	21.82826	0.12631	184.8749	7.263238	57.50349	6.475333	0.7852
-29.116	72.24	21.82826	0.123375	183.5571	7.043946	57.0936	6.429176	0.8038
-29.390	72.24	21.82826	0.124591	172.8953	6.700177	53.77734	6.055741	0.7960
-29.674	72.24	21.82826	0.122948	166.6659	6.373616	51.83976	5.837554	0.8066
-29.938	72.24	21.82826	0.118869	166.9055	6.171012	51.91431	5.845946	0.8343
-30.222	72.24	21.82826	0.118579	165.8273	6.1162	51.57894	5.808181	0.8363
-30.497	72.24	21.82826	0.124027	160.9157	6.207676	50.05121	5.63615	0.7996
-30.781	72.24	21.81089	0.131802	154.6863	6.341471	48.11361	5.417962	0.7524
-31.055	72.24	21.82826	0.138155	149.1757	6.410353	46.39958	5.224951	0.7178
-31.329	72.24	21.81089	0.138151	150.2538	6.45646	46.73498	5.262712	0.7179
-31.613	72.24	21.81089	0.134336	154.9259	6.473408	48.18815	5.426354	0.7382
-31.888	72.24	21.81089	0.128062	162.1136	6.457385	50.42386	5.678107	0.7744
-32.162	72.24	21.81089	0.125128	165.2283	6.430644	51.39261	5.787201	0.7926
-32.446	72.24	21.81089	0.127798	159.8375	6.353597	49.71586	5.598386	0.7760
-32.721	72.24	21.81089	0.12323	163.671	6.273426	50.90823	5.732656	0.8048
-33.005	72.24	21.81089	0.124676	158.8792	6.161227	49.41779	5.564821	0.7954
-33.279	72.24	21.81089	0.133424	145.2224	6.026737	45.16995	5.086485	0.7433
-33.554	72.24	21.79353	0.137468	137.795	5.891858	42.85976	4.826336	0.7214
-33.838	72.24	21.81089	0.140518	133.6022	5.839318	41.5556	4.679481	0.7058
-34.123	72.24	21.79353	0.141888	132.4042	5.843366	41.183	4.637521	0.6990
-34.397	72.24	21.79353	0.143308	132.7636	5.917886	41.29479	4.650109	0.6920
-34.681	72.24	21.79353	0.145321	132.2844	5.979338	41.14575	4.633325	0.6824
-34.956	72.24	21.79353	0.141916	136.2377	6.013721	42.37536	4.771791	0.6988
-35.231	72.24	21.79353	0.141675	137.4356	6.056312	42.74798	4.813748	0.7000
-35.515	72.24	21.79353	0.148959	131.326	6.084616	40.84765	4.599756	0.6658
-35.790	72.24	21.79353	0.154796	125.456	6.040431	39.02183	4.394157	0.6407
-36.074	72.24	21.79353	0.156586	122.7007	5.976089	38.16483	4.297651	0.6333
-36.349	72.24	21.79353	0.154197	122.8205	5.890657	38.2021	4.301847	0.6432
-36.624	72.24	21.79353	0.152261	121.1434	5.737241	37.68043	4.243106	0.6513
-36.898	72.24	21.79353	0.151452	118.5079	5.582632	36.86069	4.150796	0.6548
-37.173	72.24	21.79353	0.150848	116.5911	5.470416	36.2645	4.08366	0.6574
-37.448	72.24	21.79353	0.151256	115.3932	5.428862	35.8919	4.041702	0.6557
-37.723	72.24	21.79353	0.152853	114.315	5.434906	35.55654	4.003938	0.6488
-37.997	72.24	21.79353	0.156761	113.4764	5.532987	35.29571	3.974566	0.6326
-38.272	72.24	21.79353	0.169771	110.2419	5.821373	34.28964	3.861276	0.5842
-38.557	72.24	21.79353	0.18324	109.8825	6.262743	34.17785	3.848688	0.5412
-38.822	72.24	21.79353	0.20073	107.846	6.733368	33.54442	3.777358	0.4941
-39.107	72.24	21.79353	0.217454	105.5699	7.140407	32.83646	3.697637	0.4561
-39.391	72.24	21.77617	0.231533	103.7729	7.473306	32.27753	3.634696	0.4283
-39.666	72.24	21.7588	0.241136	103.0542	7.729353	32.05398	3.609523	0.4113
-39.951	72.24	21.72407	0.248614	102.3354	7.913467	31.83039	3.584347	0.3989
-40.226	72.24	21.67198	0.265991	97.06435	8.030521	30.19091	3.399726	0.3728
-40.511	72.24	21.63725	0.274459	95.7466	8.173669	29.78102	3.353571	0.3613
-40.786	72.24	21.58516	0.296508	93.82986	8.653548	29.18484	3.286436	0.3345
-41.081	72.24	21.5157	0.332612	91.79333	9.496526	28.5514	3.215106	0.2982
-41.366	72.24	21.42888	0.380728	88.67863	10.50146	27.5826	3.106012	0.2605
-41.651	72.24	21.35942	0.435789	85.80352	11.63048	26.68833	3.00531	0.2276
-41.945	72.24	21.30733	0.484806	84.00658	12.6677	26.1294	2.942371	0.2046
-42.240	72.24	21.23787	0.524025	82.80862	13.4972	25.75679	2.900412	0.1893
-42.535	72.24	21.18578	0.559531	81.01167	14.09899	25.19787	2.837473	0.1772
-42.820	72.24	21.13369	0.58684	79.57412	14.52472	24.75074	2.787122	0.1690
-43.115	72.24	21.09896	0.610101	78.37616	14.87312	24.37812	2.745163	0.1626
-43.400	72.24	21.04687	0.636435	76.10004	15.06452	23.67015	2.665441	0.1558
-43.695	72.24	21.01214	0.657696	73.46452	15.02862	22.85041	2.57313	0.1508
-43.990	72.24	20.99478	0.659626	72.02697	14.77779	22.40327	2.522779	0.1503
-44.285	72.24	20.96005	0.654579	70.46962	14.34764	21.91887	2.468232	0.1515
-44.579	72.24	20.92532	0.63978	69.27166	13.78487	21.54625	2.426273	0.1550
-44.865	72.24	20.89059	0.629857	67.47472	13.21902	20.98734	2.363335	0.1575
-45.160	72.24	20.87323	0.620667	66.03716	12.74862	20.5402	2.312983	0.1598
-45.445	72.24	20.85586	0.617923	64.959	12.48504	20.20485	2.27522	0.1605
-45.740	72.24	20.8385	0.624128	63.28185	12.28483	19.68319	2.216477	0.1589
-46.025	72.24	20.80377	0.637174	60.64634	12.01929	18.86344	2.124167	0.1556
-46.310	72.24	20.80377	0.651119	57.89103	11.72432	18.00643	2.027661	0.1523
-46.596	72.24	20.78641	0.656574	55.97429	11.43112	17.41025	1.960527	0.1510
-46.881	72.24	20.76904	0.646712	55.37531	11.13892	17.22394	1.939547	0.1533
-47.166	72.24	20.73431	0.629068	55.25551	10.81159	17.18668	1.935351	0.1577
-47.452	72.24	20.71695	0.616138	54.65653	10.47457	17.00037	1.914371	0.1610
-47.737	72.24	20.68222	0.609948	53.45857	10.14206	16.62776	1.872412	0.1626
-48.013	72.24	20.66486	0.592379	52.85959	9.73957	16.44145	1.851433	0.1674
-48.298	72.24	20.64749	0.576526	51.78143	9.285576	16.1061	1.81367	0.1720
-48.584	72.24	20.63013	0.564855	50.22408	8.823997	15.6217	1.759123	0.1756

-48.869	72.24	20.61276	0.555827	48.66673	8.413723	15.1373	1.704576	0.1784
-49.145	72.24	20.57804	0.554889	46.86979	8.08939	14.57838	1.641637	0.1787
-49.430	72.24	20.56067	0.549499	45.91142	7.846999	14.28029	1.60807	0.1805
-49.706	72.24	20.52594	0.545085	45.19264	7.662099	14.05672	1.582894	0.1819
-49.991	72.24	20.49121	0.536184	45.07285	7.517007	14.01946	1.578698	0.1850
-50.277	72.24	20.47385	0.534009	44.59366	7.406921	13.87042	1.561914	0.1857
-50.563	72.24	20.43912	0.539769	43.3957	7.285693	13.4978	1.519955	0.1837
-50.858	72.24	20.42176	0.545006	42.07794	7.13299	13.08792	1.4738	0.1820
-51.144	72.24	20.38703	0.548873	40.64039	6.938188	12.64079	1.423449	0.1807
-51.429	72.24	20.3523	0.540076	39.92161	6.706243	12.41722	1.398274	0.1836
-51.725	72.24	20.31757	0.520366	39.92161	6.461497	12.41721	1.398274	0.1906
-52.011	72.24	20.28284	0.504862	39.80182	6.250172	12.37996	1.394078	0.1964
-52.296	72.24	20.24812	0.489128	39.80182	6.055379	12.37995	1.394078	0.2028
-52.592	72.24	20.19602	0.480639	39.56223	5.914473	12.30543	1.385686	0.2063
-52.878	72.24	20.16129	0.484739	38.60386	5.820431	12.00734	1.352119	0.2046
-53.164	72.24	20.1092	0.500848	36.80692	5.733914	11.44842	1.28918	0.1980
-53.449	72.24	20.03975	0.516196	35.12977	5.640348	10.92676	1.230437	0.1921
-53.745	72.24	19.97029	0.528953	33.69221	5.543234	10.47963	1.180086	0.1875
-54.031	72.24	19.90083	0.536322	32.73384	5.460579	10.18154	1.146519	0.1849
-54.327	72.24	19.79665	0.538905	32.13486	5.386483	9.995229	1.125539	0.1840
-54.622	72.24	19.69246	0.540569	31.65568	5.322538	9.846186	1.108755	0.1835
-54.908	72.24	19.623	0.545388	31.0567	5.268383	9.659875	1.087776	0.1818
-55.204	72.24	19.53618	0.547157	30.45772	5.183529	9.47357	1.066796	0.1813
-55.490	72.24	19.44936	0.542233	29.85874	5.035859	9.287259	1.045817	0.1829
-55.776	72.24	19.34518	0.53931	28.90037	4.847952	8.989176	1.012249	0.1839
-56.062	72.24	19.24099	0.531207	28.18159	4.656355	8.765607	0.987074	0.1867
-56.348	72.24	19.13681	0.526659	27.34302	4.479114	8.504771	0.957702	0.1883
-56.634	72.24	19.03262	0.524098	26.38465	4.301103	8.206683	0.924135	0.1892
-56.911	72.24	18.9458	0.523839	25.30649	4.123313	7.871331	0.886372	0.1893
-57.197	72.24	18.85898	0.524669	24.34812	3.973445	7.57324	0.852805	0.1890
-57.483	72.24	18.78952	0.528561	23.16513	3.808429	7.205283	0.81137	0.1876
-57.808	72.24	18.72007	0.536415	22.00461	3.671393	6.844314	0.770722	0.1849
-58.114	72.24	18.65061	0.548684	20.74675	3.540696	6.453069	0.726665	0.1807
-58.410	72.24	18.59852	0.553096	19.78089	3.403003	6.152649	0.692835	0.1793
-58.707	72.24	18.54642	0.556841	18.74765	3.247091	5.831271	0.656645	0.1781
-59.299	72.24	18.5117	0.552031	17.81174	3.05834	5.540165	0.623865	0.1797
-59.457	72.24	18.4596	0.54334	17.15287	2.898844	5.335228	0.600788	0.1825
-59.773	72.24	18.42488	0.536033	16.44158	2.741266	5.113988	0.575874	0.1850
-60.089	72.24	18.39015	0.523786	15.8426	2.58105	4.927682	0.554895	0.1893
-60.247	72.24	18.37278	0.514029	15.12382	2.41805	4.704113	0.529719	0.1929
-60.563	72.24	18.33805	0.505072	14.39756	2.261819	4.478216	0.504281	0.1964
-60.879	72.24	18.32069	0.494158	13.79109	2.119729	4.28958	0.48304	0.2007
-61.195	72.24	18.30333	0.484695	13.22206	1.993352	4.112589	0.463109	0.2046
-61.353	72.24	18.28596	0.482472	12.58564	1.888701	3.914637	0.440818	0.2056
-61.669	72.24	18.2686	0.481692	12.00912	1.799273	3.735317	0.420625	0.2059
-61.985	72.24	18.25123	0.484204	11.36522	1.711679	3.535037	0.398072	0.2048
-62.301	72.24	18.25123	0.476978	10.99834	1.631706	3.420924	0.385222	0.2079
-62.459	72.24	18.23387	0.477378	10.51916	1.561922	3.271878	0.368439	0.2077
-62.775	72.24	18.21651	0.471982	10.09987	1.482715	3.141464	0.353753	0.2101
-63.092	72.24	18.19914	0.468579	9.688071	1.412005	3.013378	0.339329	0.2116
-63.408	72.24	18.18178	0.462115	9.313708	1.338716	2.896936	0.326217	0.2146
-63.724	72.24	18.16441	0.455964	8.924371	1.26568	2.775836	0.31258	0.2175
-63.882	72.24	18.16441	0.457759	8.385288	1.19391	2.60816	0.293699	0.2166
-64.199	72.24	18.14705	0.453672	7.980977	1.126195	2.482403	0.279538	0.2186
-64.515	72.24	18.14705	0.445805	7.629076	1.057871	2.372947	0.267212	0.2225
-64.831	72.24	18.12968	0.444626	7.164865	0.990876	2.22856	0.250953	0.2230
-65.148	72.24	18.12968	0.433302	6.865375	0.925277	2.135406	0.240463	0.2289
-65.306	72.24	18.11232	0.429059	6.468551	0.863257	2.011978	0.226564	0.2311
-65.622	72.24	18.11232	0.421921	6.0867	0.798784	1.893208	0.21319	0.2351
-65.939	72.24	18.09496	0.404844	5.884545	0.740998	1.830329	0.206109	0.2450
-66.255	72.24	18.07759	0.395384	5.607516	0.689613	1.744162	0.196406	0.2508
-66.413	72.24	18.07759	0.390014	5.300539	0.643007	1.64868	0.185654	0.2543
-66.730	72.24	18.07759	0.383093	5.068434	0.603941	1.576485	0.177524	0.2589
-67.046	72.24	18.06023	0.371525	4.88874	0.564938	1.520593	0.17123	0.2669
-67.205	72.24	18.06023	0.355238	4.753969	0.525282	1.478674	0.16651	0.2792
-67.521	72.24	18.06023	0.34179	4.566788	0.485496	1.420454	0.159954	0.2902
-67.838	72.24	18.06023	0.328603	4.349657	0.444572	1.352917	0.152349	0.3018
-67.996	72.24	18.06023	0.277033	4.611711	0.397384	1.434427	0.161527	0.3580
-3.222	77.26	21.68934	0.101531	916.1103	28.9309	284.947	35.12853	0.8282
-3.523	77.26	21.68934	0.099671	856.6915	26.55882	266.4653	32.8501	0.8437
-3.796	77.26	21.70671	0.106043	724.4365	23.89449	225.3287	27.77874	0.7930

-4.087	77.26	21.70671	0.10052	686.1018	21.45148	213.4051	26.30878	0.8366
-4.428	77.26	21.70671	0.090291	712.9361	20.02225	221.7517	27.33775	0.9313
-4.758	77.26	21.70671	0.094643	640.1001	18.84304	199.0968	24.54483	0.8885
-5.031	77.26	21.70671	0.084091	684.1851	17.89542	212.8089	26.23529	1.0000
-5.303	77.26	21.70671	0.088316	620.9327	17.05685	193.1349	23.80985	0.9522
-5.585	77.26	21.70671	0.083745	632.4332	16.47365	196.712	24.25084	1.0041
-5.906	77.26	21.68934	0.084826	599.8486	15.82661	186.5769	23.00138	0.9913
-6.169	77.26	21.68934	0.084947	559.5971	14.78558	174.0571	21.45792	0.9899
-6.441	77.26	21.67198	0.081516	553.8469	14.04258	172.2686	21.23743	1.0316
-6.733	77.26	21.65462	0.074783	590.2649	13.72987	183.596	22.63389	1.1245
-7.025	77.26	21.65462	0.079396	538.513	13.29869	167.4991	20.64944	1.0591
-7.327	77.26	21.63725	0.078039	527.0126	12.79226	163.922	20.20846	1.0776
-7.648	77.26	21.63725	0.074152	544.2632	12.55303	169.2876	20.86994	1.1340
-7.940	77.26	21.63725	0.072235	546.1799	12.2715	169.8838	20.94343	1.1641
-8.242	77.26	21.61989	0.072065	544.2632	12.19978	169.2876	20.86994	1.1669
-8.553	77.26	21.61989	0.073798	525.0958	12.05304	163.3258	20.13496	1.1395
-8.865	77.26	21.60252	0.076824	494.428	11.81453	153.7869	18.95899	1.0946
-9.157	77.26	21.60252	0.072941	517.4289	11.73925	160.9411	19.84097	1.1529
-9.459	77.26	21.60252	0.07395	505.9285	11.63708	157.364	19.39998	1.1371
-9.761	77.26	21.61989	0.076784	477.1774	11.39633	148.4213	18.29751	1.0952
-10.073	77.26	21.60252	0.076859	475.2607	11.36167	147.8251	18.22402	1.0941
-10.394	77.26	21.60252	0.075304	484.8443	11.35637	150.806	18.5915	1.1167
-10.706	77.26	21.60252	0.07941	456.0933	11.26536	141.8633	17.48904	1.0590
-11.027	77.26	21.61989	0.077938	458.01	11.10304	142.4594	17.56253	1.0789
-11.358	77.26	21.61989	0.079953	436.9259	10.86574	135.9014	16.75406	1.0518
-11.651	77.26	21.61989	0.082376	413.925	10.60569	128.7472	15.87208	1.0208
-11.943	77.26	21.61989	0.079437	423.5087	10.46406	131.7282	16.23957	1.0586
-12.255	77.26	21.61989	0.08061	413.925	10.37829	128.7473	15.87208	1.0432
-12.577	77.26	21.61989	0.082746	398.5912	10.25864	123.9778	15.2841	1.0163
-12.879	77.26	21.61989	0.082348	394.7577	10.11112	122.7854	15.1371	1.0212
-13.201	77.26	21.61989	0.084923	375.2309	9.911467	116.7118	14.38834	0.9902
-13.542	77.26	21.61989	0.077293	407.0967	9.787124	126.6234	15.61025	1.0880
-13.844	77.26	21.61989	0.07503	423.5087	9.88359	131.7282	16.23957	1.1208
-14.166	77.26	21.63725	0.082126	389.4866	9.949241	121.1459	14.93498	1.0239
-14.478	77.26	21.63725	0.085709	373.434	9.955362	116.1529	14.31944	0.9811
-14.790	77.26	21.63725	0.088762	363.1315	10.02554	112.9484	13.92439	0.9474
-15.112	77.26	21.63725	0.087389	375.2309	10.19927	116.7118	14.38834	0.9623
-15.443	77.26	21.63725	0.088902	374.3923	10.3527	116.451	14.35619	0.9459
-15.756	77.26	21.63725	0.090554	367.8036	10.35956	114.4016	14.10354	0.9286
-16.019	77.26	21.63725	0.093869	354.3864	10.34698	110.2283	13.58905	0.8958
-16.360	77.26	21.63725	0.094678	355.9437	10.4821	110.7127	13.64877	0.8882
-16.753	77.26	21.65462	0.099827	336.1774	10.43834	104.5646	12.89082	0.8424
-17.112	77.26	21.65462	0.111608	297.3634	10.32286	92.49195	11.40249	0.7535
-17.437	77.26	21.65462	0.117201	284.5453	10.3729	88.50494	10.91098	0.7175
-17.746	77.26	21.65462	0.112034	298.0822	10.38725	92.71553	11.43005	0.7506
-18.038	77.26	21.67198	0.115632	290.0559	10.43216	90.21898	11.12228	0.7272
-18.304	77.26	21.67198	0.126689	266.3362	10.49503	82.84119	10.21274	0.6638
-18.558	77.26	21.67198	0.130697	259.9871	10.56896	80.86639	9.969284	0.6434
-18.811	77.26	21.67198	0.129243	261.3048	10.50441	81.27626	10.01981	0.6506
-19.087	77.26	21.68934	0.12807	257.8307	10.27069	80.19564	9.886597	0.6566
-19.360	77.26	21.70671	0.125434	256.9922	10.02655	79.93481	9.854444	0.6704
-19.637	77.26	21.72407	0.126534	250.1638	9.845721	77.81093	9.592607	0.6646
-19.931	77.26	21.7588	0.1312	237.9446	9.710181	74.0103	9.124058	0.6409
-20.235	77.26	21.77617	0.131245	234.4705	9.571621	72.92969	8.990843	0.6407
-20.554	77.26	21.79353	0.11752	254.5962	9.306386	79.1896	9.762569	0.7155
-20.860	77.26	21.81089	0.112347	257.8307	9.009736	80.19568	9.886597	0.7485
-21.252	77.26	21.82826	0.116472	242.8562	8.798047	75.538	9.312395	0.7220
-21.535	77.26	21.84562	0.123132	227.2827	8.704714	70.69399	8.715224	0.6829
-21.799	77.26	21.84562	0.124814	223.8086	8.688725	69.61344	8.582009	0.6737
-22.063	77.26	21.86299	0.122465	230.8766	8.794401	71.81184	8.853034	0.6867
-22.327	77.26	21.86299	0.127132	224.767	8.888007	69.91153	8.618759	0.6614
-22.601	77.26	21.88035	0.131608	215.6625	8.828205	67.07965	8.269644	0.6390
-22.884	77.26	21.88035	0.129232	213.8656	8.596614	66.52073	8.200742	0.6507
-23.177	77.26	21.89771	0.124411	214.2249	8.289838	66.63252	8.214519	0.6759
-23.471	77.26	21.89771	0.118834	214.4645	7.927049	66.70702	8.223707	0.7076
-23.764	77.26	21.89771	0.116072	210.0321	7.582788	65.32837	8.053745	0.7245
-24.057	77.26	21.89771	0.114787	204.6413	7.306377	63.65161	7.847033	0.7326
-24.350	77.26	21.91508	0.113215	202.2453	7.121961	62.9064	7.755158	0.7428
-24.644	77.26	21.91508	0.11392	196.6149	6.966799	61.15508	7.539258	0.7382
-24.927	77.26	21.91508	0.116583	188.2292	6.825544	58.5468	7.217706	0.7213
-25.221	77.26	21.91508	0.117582	183.078	6.695637	56.94455	7.020182	0.7152

-25.514	77.26	21.91508	0.10874	192.0627	6.496019	59.73916	7.364703	0.7733
-25.808	77.26	21.91508	0.095747	209.9123	6.251424	65.2911	8.049151	0.8783
-26.091	77.26	21.93244	0.089448	218.1782	6.070136	67.86217	8.366109	0.9401
-26.375	77.26	21.93244	0.088048	218.0584	5.971838	67.8249	8.361516	0.9551
-26.688	77.26	21.93244	0.089693	211.1102	5.889586	65.66372	8.095085	0.9375
-27.021	77.26	21.94981	0.091344	205.0006	5.82441	63.76339	7.86081	0.9206
-27.383	77.26	21.94981	0.092681	200.9276	5.792213	62.4965	7.70463	0.9073
-27.716	77.26	21.96717	0.092401	200.4484	5.760966	62.34748	7.686255	0.9101
-28.039	77.26	21.96717	0.092287	199.8494	5.73664	62.16115	7.663286	0.9112
-28.372	77.26	21.96717	0.095259	193.3804	5.72972	60.14906	7.41523	0.8828
-28.665	77.26	21.96717	0.0974	187.8698	5.691596	58.43503	7.203925	0.8634
-28.979	77.26	21.96717	0.097844	184.5155	5.615408	57.39172	7.075303	0.8594
-29.321	77.26	21.98454	0.098339	180.5622	5.522921	56.1621	6.923713	0.8551
-29.684	77.26	21.98454	0.098339	177.5673	5.431337	55.23055	6.808872	0.8551
-30.046	77.26	22.0019	0.098281	176.01	5.380487	54.74613	6.749157	0.8556
-30.359	77.26	22.0019	0.101343	169.541	5.344199	52.73403	6.501101	0.8298
-30.624	77.26	22.0019	0.108552	156.8426	5.29565	48.78432	6.014177	0.7747
-30.879	77.26	22.0019	0.101064	165.4679	5.201487	51.46716	6.344917	0.8321
-31.124	77.26	22.01926	0.097877	167.9836	5.114042	52.24963	6.441382	0.8592
-31.378	77.26	22.0019	0.098589	165.1085	5.063057	51.35535	6.331136	0.8530
-31.692	77.26	22.01926	0.09965	163.072	5.054417	50.72192	6.253045	0.8439
-32.054	77.26	22.01926	0.103222	158.8792	5.100983	49.41778	6.092271	0.8147
-32.407	77.26	22.01926	0.105803	156.9624	5.165484	48.82158	6.018771	0.7948
-32.750	77.26	22.03663	0.109096	153.4883	5.208356	47.74099	5.885556	0.7708
-33.064	77.26	22.03663	0.111056	152.2904	5.26055	47.36841	5.839622	0.7572
-33.387	77.26	22.03663	0.11535	149.1757	5.352191	46.39961	5.720188	0.7290
-33.701	77.26	22.03663	0.11752	151.0924	5.522926	46.99578	5.793684	0.7156
-33.995	77.26	22.05399	0.122537	150.0142	5.717611	46.66043	5.75234	0.6863
-34.319	77.26	22.05399	0.131868	143.9046	5.902433	44.7601	5.518066	0.6377
-34.642	77.26	22.05399	0.140891	138.394	6.0648	43.04608	5.30676	0.5969
-34.966	77.26	22.05399	0.150581	130.7271	6.122805	40.66134	5.01277	0.5584
-35.260	77.26	22.05399	0.166038	118.1485	6.101715	36.74891	4.53044	0.5065
-35.515	77.26	22.05399	0.176741	110.7211	6.086729	34.43871	4.245634	0.4758
-35.751	77.26	22.03663	0.17287	114.0754	6.133782	35.48201	4.374256	0.4864
-35.986	77.26	22.03663	0.174503	114.0754	6.191709	35.48202	4.374256	0.4819
-36.241	77.26	22.01926	0.177073	111.9191	6.164135	34.8113	4.291572	0.4749
-36.525	77.26	22.01926	0.174164	110.7211	5.997979	34.4387	4.245634	0.4828
-36.800	77.26	22.0019	0.170415	108.5648	5.754586	33.76799	4.16295	0.4935
-37.085	77.26	22.0019	0.168437	105.5699	5.530887	32.83646	4.04811	0.4992
-37.389	77.26	22.0019	0.170917	101.377	5.38942	31.53231	3.887332	0.4920
-37.683	77.26	21.98454	0.173198	100.2989	5.403253	31.19697	3.845992	0.4855
-37.978	77.26	21.94981	0.179251	101.2572	5.645514	31.49506	3.882738	0.4691
-38.282	77.26	21.89771	0.190355	102.0958	6.044903	31.75589	3.914895	0.4418
-38.586	77.26	21.81089	0.20606	101.1374	6.482177	31.45779	3.878144	0.4081
-38.861	77.26	21.70671	0.225651	98.8613	6.938732	30.74981	3.790867	0.3727
-39.156	77.26	21.60252	0.236812	104.1323	7.670195	32.38933	3.992985	0.3551
-39.421	77.26	21.5157	0.247296	110.0023	8.461273	34.21512	4.218072	0.3400
-39.706	77.26	21.44625	0.273602	107.846	9.177805	33.54441	4.135388	0.3074
-40.020	77.26	21.37679	0.302494	104.7313	9.853933	32.57563	4.015954	0.2780
-40.344	77.26	21.28997	0.340068	100.0593	10.58373	31.12243	3.836804	0.2473
-40.668	77.26	21.20315	0.395744	92.3923	11.37278	28.7377	3.542811	0.2125
-40.953	77.26	21.13369	0.465857	83.64719	12.1205	26.01763	3.207477	0.1805
-41.218	77.26	21.06423	0.499712	82.08984	12.75926	25.53322	3.14776	0.1683
-41.474	77.26	21.01214	0.54156	78.85535	13.28294	24.52717	3.023732	0.1553
-41.709	77.26	20.96005	0.57238	77.0584	13.71895	23.96825	2.954828	0.1469
-41.975	77.26	20.90796	0.583984	76.69901	13.9318	23.85647	2.941047	0.1440
-42.260	77.26	20.85586	0.578169	77.0584	13.8577	23.96824	2.954828	0.1454
-42.545	77.26	20.82113	0.584986	74.54269	13.56334	23.18576	2.858362	0.1437
-42.830	77.26	20.76904	0.598808	70.46962	13.12519	21.91887	2.702179	0.1404
-43.125	77.26	20.73431	0.609909	66.39655	12.59583	20.65198	2.545996	0.1379
-43.429	77.26	20.69958	0.60071	64.36002	12.02533	20.01854	2.467905	0.1400
-43.714	77.26	20.68222	0.583072	63.76104	11.56362	19.83223	2.444936	0.1442
-44.029	77.26	20.64749	0.558065	64.24022	11.15085	19.98128	2.463311	0.1507
-44.324	77.26	20.63013	0.541604	64.24022	10.82195	19.98128	2.463311	0.1553
-44.609	77.26	20.5954	0.538201	63.04226	10.55339	19.60866	2.417375	0.1562
-44.874	77.26	20.57804	0.534424	62.32348	10.35987	19.3851	2.389813	0.1573
-45.130	77.26	20.56067	0.538076	61.12552	10.23016	19.01248	2.343877	0.1563
-45.396	77.26	20.52594	0.549029	59.32858	10.13155	18.45356	2.274972	0.1532
-45.661	77.26	20.50858	0.551225	58.49001	10.02829	18.19273	2.242817	0.1526
-45.937	77.26	20.49121	0.552206	57.41184	9.860944	17.85738	2.201474	0.1523
-46.222	77.26	20.47385	0.551193	55.97429	9.5964	17.41025	2.146351	0.1526

-46.517	77.26	20.43912	0.547864	54.41694	9.27307	16.92585	2.086634	0.1535
-46.812	77.26	20.42176	0.541501	52.97939	8.923241	16.47871	2.031511	0.1553
-47.117	77.26	20.40439	0.52919	51.90122	8.542895	16.14336	1.990168	0.1589
-47.412	77.26	20.38703	0.516616	50.94286	8.185912	15.84527	1.953419	0.1628
-47.698	77.26	20.36967	0.509527	49.5053	7.845768	15.39813	1.898296	0.1650
-47.993	77.26	20.3523	0.501765	48.30734	7.539273	15.02551	1.85236	0.1676
-48.278	77.26	20.3523	0.493049	47.46877	7.27971	14.76469	1.820204	0.1706
-48.564	77.26	20.33494	0.486493	46.5104	7.037893	14.46659	1.783455	0.1729
-48.859	77.26	20.31757	0.480974	45.55203	6.814679	14.16851	1.746706	0.1748
-49.155	77.26	20.31757	0.473535	44.83325	6.603414	13.94493	1.719145	0.1776
-49.450	77.26	20.31757	0.466844	44.11448	6.405739	13.72137	1.691583	0.1801
-49.755	77.26	20.30021	0.459265	43.5155	6.216173	13.53506	1.668615	0.1831
-50.051	77.26	20.28284	0.45511	42.67692	6.041235	13.27423	1.636459	0.1848
-50.336	77.26	20.28284	0.44907	41.95815	5.860655	13.05066	1.608898	0.1873
-50.632	77.26	20.26548	0.446714	40.99978	5.696745	12.75257	1.572149	0.1882
-50.927	77.26	20.26548	0.443489	40.16121	5.539951	12.49174	1.539994	0.1896
-51.223	77.26	20.24812	0.441126	39.32263	5.395378	12.23091	1.507838	0.1906
-51.518	77.26	20.24812	0.434588	38.84345	5.250632	12.08187	1.489464	0.1935
-51.814	77.26	20.23075	0.431058	38.12467	5.111614	11.85829	1.461902	0.1951
-52.109	77.26	20.21339	0.428047	37.2861	4.964259	11.59747	1.429747	0.1965
-52.405	77.26	20.17866	0.425801	36.44753	4.827155	11.33663	1.397592	0.1975
-52.700	77.26	20.16129	0.425708	35.48915	4.699192	11.03855	1.360842	0.1975
-52.996	77.26	20.14393	0.424512	34.65059	4.575269	10.77772	1.328687	0.1981
-53.272	77.26	20.1092	0.418503	34.29119	4.463722	10.66593	1.314906	0.2009
-53.578	77.26	20.07447	0.417518	33.69221	4.375434	10.47963	1.291938	0.2014
-53.854	77.26	20.03975	0.429105	32.37446	4.320981	10.06975	1.241409	0.1960
-54.139	77.26	19.98765	0.435049	31.65568	4.28357	9.846183	1.213847	0.1933
-54.435	77.26	19.93556	0.435662	31.41609	4.257143	9.771662	1.20466	0.1930
-54.731	77.26	19.88347	0.434374	31.29629	4.22837	9.7344	1.200066	0.1936
-55.037	77.26	19.79665	0.4305	31.1765	4.174614	9.697138	1.195472	0.1953
-55.342	77.26	19.65773	0.422436	31.1765	4.096421	9.697139	1.195472	0.1991
-55.638	77.26	19.50146	0.424924	30.33792	4.009715	9.436308	1.163317	0.1979
-55.924	77.26	19.36254	0.426853	29.61915	3.932489	9.212739	1.135755	0.1970
-56.200	77.26	19.24099	0.426313	29.13996	3.863969	9.063695	1.117381	0.1973
-56.457	77.26	19.13681	0.429175	28.54098	3.809952	8.877387	1.094413	0.1959
-56.743	77.26	19.01526	0.435016	27.942	3.780755	8.69108	1.071444	0.1933
-57.019	77.26	18.92844	0.443999	27.22322	3.759564	8.467512	1.043883	0.1894
-57.315	77.26	18.84162	0.448947	26.62424	3.717822	8.281204	1.020915	0.1873
-57.611	77.26	18.77216	0.444771	26.26486	3.633525	8.169421	1.007134	0.1891
-57.927	77.26	18.7027	0.427365	26.26486	3.491326	8.169421	1.007134	0.1968
-58.233	77.26	18.63325	0.411689	25.90547	3.317238	8.057637	0.993353	0.2043
-58.519	77.26	18.52906	0.405033	25.0669	3.157964	7.796808	0.961198	0.2076
-58.815	77.26	18.44224	0.405186	23.74914	2.993084	7.386933	0.910668	0.2075
-59.299	77.26	18.33805	0.403954	22.69344	2.851336	7.058566	0.870187	0.2082
-59.615	77.26	18.25123	0.405774	21.92225	2.766847	6.818697	0.840615	0.2072
-59.931	77.26	18.18178	0.402168	21.4206	2.679507	6.662664	0.821379	0.2091
-60.247	77.26	18.12968	0.398932	20.82911	2.584556	6.478686	0.798699	0.2108
-60.405	77.26	18.07759	0.39271	20.29003	2.478399	6.31101	0.778027	0.2141
-60.721	77.26	18.04286	0.390148	19.58622	2.37682	6.092098	0.75104	0.2155
-61.037	77.26	18.00813	0.385328	18.93483	2.269383	5.889491	0.726062	0.2182
-61.353	77.26	17.97341	0.383362	18.17113	2.166743	5.651949	0.696778	0.2194
-61.669	77.26	17.95604	0.381563	17.42241	2.067714	5.419066	0.668068	0.2204
-61.827	77.26	17.92131	0.380021	16.86086	1.992985	5.244403	0.646535	0.2213
-62.143	77.26	17.90395	0.379818	16.28434	1.923809	5.065083	0.624428	0.2214
-62.459	77.26	17.88659	0.374174	15.8426	1.843811	4.927682	0.607489	0.2247
-62.775	77.26	17.88659	0.368362	15.37839	1.761984	4.783292	0.589689	0.2283
-63.092	77.26	17.86922	0.3612	14.88423	1.672209	4.62959	0.57074	0.2328
-63.250	77.26	17.86922	0.354498	14.3152	1.578438	4.452599	0.548921	0.2372
-63.566	77.26	17.85186	0.345842	13.65632	1.469017	4.247661	0.523656	0.2432
-63.882	77.26	17.83449	0.342105	13.01241	1.384627	4.047381	0.498965	0.2458
-64.199	77.26	17.83449	0.344594	12.3161	1.32007	3.8308	0.472265	0.2440
-64.515	77.26	17.81713	0.354165	11.52245	1.269308	3.583943	0.441832	0.2374
-64.673	77.26	17.81713	0.370334	10.69136	1.231522	3.325441	0.409963	0.2271
-64.989	77.26	17.79976	0.388793	10.00254	1.209609	3.111189	0.38355	0.2163
-65.306	77.26	17.79976	0.39967	9.545813	1.186672	2.96913	0.366037	0.2104
-65.622	77.26	17.7824	0.394497	9.328683	1.144671	2.901594	0.357711	0.2132
-65.780	77.26	17.7824	0.368823	9.381093	1.076188	2.917895	0.359721	0.2280
-66.097	77.26	17.76504	0.344529	9.276272	0.994068	2.885292	0.355701	0.2441
-66.413	77.26	17.76504	0.329767	8.916883	0.914611	2.773507	0.341921	0.2550
-66.730	77.26	17.74767	0.319559	8.512571	0.846111	2.64775	0.326417	0.2631
-66.888	77.26	17.74767	0.32561	7.846206	0.794645	2.440484	0.300865	0.2583

-67.205	77.26	17.73031	0.329959	7.39697	0.759154	2.300755	0.283639	0.2549
-67.521	77.26	17.73031	0.329019	7.157378	0.732472	2.226231	0.274452	0.2556
-67.680	77.26	17.73031	0.326785	6.932761	0.704668	2.156367	0.265839	0.2573
-67.996	77.26	17.71294	0.319681	6.768041	0.67297	2.105132	0.259523	0.2630
-68.313	77.26	17.71294	0.308502	6.640758	0.637224	2.065541	0.254642	0.2726
-68.630	77.26	17.71294	0.296409	6.505987	0.59982	2.023623	0.249474	0.2837
-68.946	77.26	17.69558	0.281502	6.408653	0.561131	1.993347	0.245742	0.2987
-69.105	77.26	17.69558	0.274563	6.139112	0.52428	1.909509	0.235406	0.3063
-69.421	77.26	17.67822	0.272879	5.802185	0.492467	1.804711	0.222487	0.3082
-69.738	77.26	17.67822	0.271525	5.517669	0.465995	1.716216	0.211577	0.3097
-70.055	77.26	17.67822	0.266392	5.330488	0.441677	1.657995	0.204399	0.3157
-70.213	77.26	17.66085	0.263571	5.113357	0.419198	1.590459	0.196073	0.3190
-70.530	77.26	17.66085	0.262641	4.873765	0.398147	1.515936	0.186886	0.3202
-70.847	77.26	17.66085	0.265967	4.566788	0.377794	1.420454	0.175115	0.3162
-71.164	77.26	17.64349	0.265524	4.349657	0.359233	1.352918	0.166789	0.3167
-71.322	77.26	17.64349	0.265076	4.154988	0.342576	1.292368	0.159324	0.3172
-71.639	77.26	17.64349	0.265294	3.930371	0.324323	1.222502	0.150711	0.3170
-71.956	77.26	17.62612	0.257055	3.848011	0.307665	1.196885	0.147553	0.3271
-72.273	77.26	17.62612	0.258258	3.623393	0.291062	1.12702	0.13894	0.3256
-72.590	77.26	17.60876	0.249273	3.541033	0.274549	1.101403	0.135782	0.3373
-72.749	77.26	17.60876	0.251495	3.338877	0.261183	1.038524	0.12803	0.3344
-73.066	77.26	17.60876	0.248315	3.234056	0.249785	1.005921	0.124011	0.3386
-73.383	77.26	17.60876	0.255615	3.016925	0.239865	0.938385	0.115685	0.3290
-73.542	77.26	17.59139	0.251469	2.957027	0.231289	0.919754	0.113388	0.3344
-73.859	77.26	17.59139	0.255374	2.799795	0.222392	0.870848	0.107359	0.3293
-74.176	77.26	17.59139	0.262302	2.605126	0.212543	0.810299	0.099894	0.3206
-74.334	77.26	17.59139	0.253637	2.582664	0.20375	0.803312	0.099033	0.3315
-74.652	77.26	17.59139	0.25742	2.425432	0.194199	0.754406	0.093004	0.3267
-74.969	77.26	17.57403	0.262756	2.260713	0.184763	0.703172	0.086688	0.3200
-75.286	77.26	17.57403	0.25589	2.208302	0.175763	0.68687	0.084678	0.3286
-75.445	77.26	17.57403	0.258745	2.073531	0.166878	0.644951	0.07951	0.3250
-75.762	77.26	17.57403	0.255492	1.983684	0.15764	0.617005	0.076065	0.3291
-76.079	77.26	17.57403	0.259011	1.856401	0.149557	0.577415	0.071184	0.3247
-76.397	77.26	17.57403	0.265173	1.736605	0.143234	0.540154	0.066591	0.3171
-76.555	77.26	17.57403	0.259731	1.699168	0.13727	0.528509	0.065155	0.3238
-76.873	77.26	17.57403	0.258128	1.63927	0.131614	0.509879	0.062858	0.3258
-77.190	77.26	17.57403	0.261857	1.541936	0.125588	0.479604	0.059126	0.3211
-77.349	77.26	17.57403	0.262858	1.467063	0.119946	0.456315	0.056255	0.3199
-77.666	77.26	17.57403	0.266785	1.377216	0.114283	0.428369	0.05281	0.3152
-77.825	77.26	17.57403	0.270951	1.287369	0.108495	0.400423	0.049365	0.3104
-1.900	84.73	21.94981	0.139005	1402.962	60.65872	436.377	36.93079	0.6309
-2.153	84.73	21.94981	0.157353	1128.868	55.25021	351.1231	29.71569	0.5574
-2.425	84.73	21.94981	0.117066	1378.044	50.17766	428.6268	36.27486	0.7492
-2.697	84.73	21.96717	0.103436	1479.631	47.60389	460.2243	38.94898	0.8479
-2.960	84.73	21.96717	0.120383	1238.122	46.35995	385.1054	32.59163	0.7285
-3.212	84.73	21.96717	0.115734	1140.369	41.05079	354.7004	30.01844	0.7578
-3.485	84.73	21.96717	0.127761	973.6124	38.69025	302.8323	25.62883	0.6864
-3.747	84.73	21.96717	0.103813	1134.618	36.63676	352.9118	29.86705	0.8448
-4.058	84.73	21.96717	0.103922	1040.698	33.63957	323.6989	27.39475	0.8439
-4.330	84.73	21.98454	0.088628	1119.285	30.85518	348.1423	29.46343	0.9895
-4.583	84.73	21.96717	0.099581	962.112	29.80024	299.2554	25.3261	0.8807
-4.846	84.73	21.96717	0.102405	902.6932	28.75274	280.7737	23.76199	0.8564
-5.138	84.73	21.96717	0.087701	996.6133	27.18606	309.9866	26.23429	1.0000
-5.430	84.73	21.96717	0.094196	887.3593	25.99843	276.0042	23.35835	0.9310
-5.731	84.73	21.96717	0.085488	919.9438	24.46154	286.1393	24.21609	1.0259
-6.013	84.73	21.96717	0.06663	1138.452	23.59392	354.1041	29.96798	1.3162
-6.295	84.73	21.96717	0.112179	643.9336	22.46832	200.2891	16.95055	0.7818
-6.578	84.73	21.96717	0.083511	806.8563	20.95832	250.9646	21.23924	1.0502
-6.860	84.73	21.94981	0.076053	858.6082	20.31072	267.0615	22.60152	1.1532
-7.132	84.73	21.94981	0.067567	960.1953	20.17955	298.6592	25.27565	1.2980
-7.424	84.73	21.94981	0.089393	703.3524	19.55655	218.7707	18.51466	0.9811
-7.697	84.73	21.94981	0.087108	693.7687	18.79702	215.7898	18.26238	1.0068
-8.008	84.73	21.94981	0.071571	804.9395	17.9192	250.3684	21.18878	1.2254
-8.271	84.73	21.94981	0.069229	803.0228	17.29159	249.7722	21.13832	1.2668
-8.495	84.73	21.94981	0.049139	1090.533	16.66799	339.1995	28.70658	1.7847
-8.729	84.73	21.94981	0.056961	931.4442	16.5024	289.7164	24.51882	1.5397
-8.972	84.73	21.94981	0.072262	789.6057	17.74737	245.5989	20.78514	1.2137
-9.196	84.73	21.94981	0.075908	743.6039	17.55672	231.2906	19.57421	1.1554
-9.488	84.73	21.94981	0.073233	755.1044	17.20003	234.8677	19.87695	1.1976
-9.741	84.73	21.94981	0.065519	803.0228	16.36493	249.7722	21.13832	1.3385
-9.985	84.73	21.94981	0.063853	803.0228	15.94862	249.7722	21.13832	1.3735

-10.258	84.73	21.94981	0.071172	735.937	16.29164	228.9058	19.37239	1.2322
-10.560	84.73	21.94981	0.072066	734.0203	16.4533	228.3097	19.32194	1.2170
-10.871	84.73	21.94981	0.081786	663.101	16.86845	206.2509	17.4551	1.0723
-11.154	84.73	21.94981	0.077377	678.4348	16.32817	211.0203	17.85874	1.1334
-11.417	84.73	21.94981	0.079249	617.0992	15.21122	191.9425	16.24418	1.1067
-11.651	84.73	21.94981	0.084414	544.2632	14.2902	169.2876	14.32688	1.0389
-11.885	84.73	21.94981	0.07954	548.0967	13.56005	170.48	14.42779	1.1026
-12.128	84.73	21.94981	0.069922	605.5988	13.1708	188.3655	15.94144	1.2543
-12.362	84.73	21.94981	0.061278	699.519	13.33285	217.5784	18.41375	1.4312
-12.606	84.73	21.94981	0.056766	780.0219	13.77234	242.618	20.53286	1.5450
-12.850	84.73	21.94981	0.0666	647.767	13.4186	201.4815	17.05146	1.3168
-13.093	84.73	21.94981	0.070289	571.0975	12.48565	177.6342	15.03325	1.2477
-13.317	84.73	21.94981	0.08274	571.0975	14.69741	177.6342	15.03325	1.0600
-13.542	84.73	21.94981	0.076316	622.8494	14.78476	193.7311	16.39554	1.1492
-13.776	84.73	21.94981	0.058561	693.7687	12.63696	215.7899	18.26238	1.4976
-14.029	84.73	21.94981	0.072619	569.1808	12.85635	177.038	14.9828	1.2077
-14.322	84.73	21.94981	0.069707	594.0984	12.88098	184.7883	15.63871	1.2581
-14.624	84.73	21.96717	0.061344	674.6014	12.8717	209.828	17.75783	1.4297
-14.897	84.73	21.96717	0.0644	624.7662	12.51464	194.3273	16.446	1.3618
-15.190	84.73	21.96717	0.072852	546.1799	12.37638	169.8838	14.37733	1.2038
-15.492	84.73	21.96717	0.071183	555.7636	12.30503	172.8647	14.62961	1.2320
-15.804	84.73	21.96717	0.055029	732.1035	12.53081	227.7135	19.27148	1.5937
-16.117	84.73	21.98454	0.059489	680.3516	12.58886	211.6166	17.9092	1.4742
-16.399	84.73	21.98454	0.074145	534.6795	12.33073	166.3067	14.0746	1.1828
-16.720	84.73	21.98454	0.081491	463.7602	11.75484	144.248	12.20776	1.0762
-17.029	84.73	22.0019	0.077228	486.7611	11.69245	151.4022	12.81323	1.1356
-17.320	84.73	22.0019	0.066159	578.7645	11.90989	180.0189	15.23507	1.3256
-17.629	84.73	22.0019	0.068079	582.598	12.33664	181.2113	15.33598	1.2882
-17.948	84.73	22.01926	0.064605	620.9327	12.47749	193.1349	16.34509	1.3575
-18.246	84.73	22.01926	0.081932	477.1774	12.16042	148.4212	12.56095	1.0704
-18.504	84.73	22.03663	0.077549	496.3448	11.97221	154.3831	13.0655	1.1309
-18.743	84.73	22.03663	0.07678	488.6778	11.67048	151.9983	12.86368	1.1422
-19.024	84.73	22.03663	0.071188	504.0117	11.16	156.7678	13.26732	1.2320
-19.295	84.73	22.05399	0.071606	494.428	11.01201	153.7869	13.01505	1.2248
-19.609	84.73	22.07136	0.072091	502.095	11.25852	156.1716	13.21687	1.2165
-19.938	84.73	22.07136	0.080603	459.9268	11.53066	143.0556	12.10686	1.0881
-20.271	84.73	22.08872	0.081794	446.5096	11.35976	138.8824	11.75367	1.0722
-20.597	84.73	22.10609	0.084169	423.5087	11.08743	131.7282	11.14821	1.0420
-20.948	84.73	22.12345	0.084064	410.0916	10.72274	127.5549	10.79502	1.0433
-21.379	84.73	22.15818	0.075557	456.0933	10.71872	141.8632	12.00595	1.1607
-21.701	84.73	22.17554	0.078054	438.8427	10.65416	136.4976	11.55185	1.1236
-22.014	84.73	22.19291	0.081972	415.8418	10.60252	129.3434	10.94639	1.0699
-22.278	84.73	22.19291	0.076495	448.4263	10.66948	139.4785	11.80412	1.1465
-22.542	84.73	22.21027	0.077371	442.6761	10.65319	137.69	11.65276	1.1335
-22.845	84.73	22.22763	0.081252	412.0083	10.41256	128.151	10.84548	1.0794
-23.109	84.73	22.245	0.085583	379.0644	10.09061	117.9042	9.97828	1.0247
-23.480	84.73	22.26236	0.082283	387.4501	9.916102	120.5125	10.19902	1.0658
-23.822	84.73	22.29709	0.084107	377.2674	9.869589	117.3453	9.930977	1.0427
-24.184	84.73	22.31446	0.08646	368.7619	9.916953	114.6997	9.707083	1.0143
-24.517	84.73	22.33182	0.078847	410.8103	10.075	127.7785	10.81394	1.1123
-24.859	84.73	22.34918	0.076605	429.7381	10.23953	133.6658	11.31219	1.1448
-25.231	84.73	22.38391	0.086613	380.5019	10.25076	118.3513	10.01612	1.0126
-25.583	84.73	22.40128	0.096576	336.8961	10.12004	104.7882	8.868265	0.9081
-25.915	84.73	22.41864	0.097046	331.7449	10.01382	103.186	8.732668	0.9037
-26.248	84.73	22.436	0.09343	348.6362	10.13158	108.4398	9.177305	0.9387
-26.581	84.73	22.47073	0.089428	371.7568	10.34072	115.6312	9.785919	0.9807
-26.923	84.73	22.47073	0.095778	346.8392	10.33264	107.8809	9.130002	0.9157
-27.236	84.73	22.4881	0.095712	342.1672	10.18635	106.4277	9.007018	0.9163
-27.549	84.73	22.50546	0.099333	324.9165	10.03876	101.062	8.552921	0.8829
-27.872	84.73	22.50546	0.103415	304.5512	9.79627	94.72756	8.016836	0.8480
-28.205	84.73	22.50546	0.100887	306.468	9.616899	95.32375	8.067293	0.8693
-28.567	84.73	22.50546	0.104422	298.202	9.685436	92.75274	7.849703	0.8399
-28.930	84.73	22.52283	0.107097	295.9259	9.857678	92.04474	7.789788	0.8189
-29.263	84.73	22.52283	0.1084	295.3269	9.957449	91.85847	7.774021	0.8090
-29.596	84.73	22.52283	0.113778	281.0712	9.946981	87.42439	7.398761	0.7708
-29.938	84.73	22.52283	0.11401	280.8316	9.958749	87.34986	7.392454	0.7692
-30.301	84.73	22.52283	0.112807	283.5869	9.950321	88.2069	7.464983	0.7774
-30.624	84.73	22.52283	0.116874	270.1697	9.821356	84.03357	7.111796	0.7504
-30.957	84.73	22.52283	0.121693	258.3099	9.777408	80.34474	6.799606	0.7207
-31.290	84.73	22.50546	0.120494	263.7007	9.883119	82.02146	6.94151	0.7278
-31.633	84.73	22.50546	0.125142	255.914	9.961229	79.59947	6.736537	0.7008

-31.956	84.73	22.47073	0.132466	239.7415	9.877857	74.56922	6.310821	0.6621
-32.280	84.73	22.45337	0.136764	228.0015	9.698983	70.91761	6.001784	0.6413
-32.603	84.73	22.41864	0.135567	225.7254	9.518113	70.20961	5.941869	0.6469
-32.917	84.73	22.36655	0.135218	223.9284	9.418002	69.65071	5.894566	0.6486
-33.230	84.73	22.29709	0.142434	212.1884	9.400506	65.99908	5.585529	0.6157
-33.505	84.73	22.22763	0.139131	217.1001	9.395041	67.52683	5.714822	0.6303
-33.770	84.73	22.15818	0.142651	212.5478	9.430754	66.11086	5.59499	0.6148
-34.025	84.73	22.07136	0.153375	198.7712	9.482556	61.82579	5.232342	0.5718
-34.260	84.73	21.98454	0.158892	190.7449	9.426918	59.32928	5.021062	0.5520
-34.515	84.73	21.88035	0.152529	196.7347	9.333593	61.19237	5.178734	0.5750
-34.809	84.73	21.7588	0.149636	196.8545	9.162124	61.22961	5.181888	0.5861
-35.084	84.73	21.65462	0.151191	190.6251	8.964419	59.29205	5.017909	0.5801
-35.368	84.73	21.56779	0.157953	177.8069	8.735602	55.30507	4.68049	0.5552
-35.643	84.73	21.48097	0.158206	173.4943	8.537396	53.96366	4.566967	0.5543
-35.937	84.73	21.41152	0.16028	170.6192	8.505955	53.06938	4.491285	0.5472
-36.241	84.73	21.35942	0.157585	172.4161	8.45103	53.62829	4.538585	0.5565
-36.545	84.73	21.30733	0.157966	171.5775	8.43026	53.36746	4.51651	0.5552
-36.849	84.73	21.25524	0.15948	171.6973	8.516962	53.40475	4.519664	0.5499
-37.134	84.73	21.22051	0.160947	172.7755	8.649301	53.74009	4.548046	0.5449
-37.399	84.73	21.18578	0.160415	175.0516	8.734297	54.44806	4.607961	0.5467
-37.683	84.73	21.15105	0.16685	168.2232	8.730288	52.32414	4.428214	0.5256
-37.948	84.73	21.13369	0.179752	156.1238	8.72888	48.56076	4.109716	0.4879
-38.243	84.73	21.09896	0.181886	154.5665	8.74441	48.07638	4.068722	0.4822
-38.528	84.73	21.0816	0.168987	165.5877	8.703577	51.50439	4.358838	0.5190
-38.842	84.73	21.06423	0.173221	161.1553	8.682811	50.12574	4.242162	0.5063
-39.156	84.73	21.04687	0.175384	159.7177	8.712835	49.67862	4.20432	0.5000
-39.470	84.73	21.04687	0.186879	149.6548	8.698938	46.54863	3.939429	0.4693
-39.774	84.73	21.04687	0.197418	139.9514	8.593707	43.53047	3.684003	0.4442
-40.049	84.73	21.04687	0.199404	137.6752	8.538968	42.82252	3.624085	0.4398
-40.324	84.73	21.04687	0.199158	137.9148	8.543301	42.89704	3.630392	0.4404
-40.560	84.73	21.06423	0.196832	139.8316	8.560858	43.49322	3.680849	0.4456
-40.815	84.73	21.06423	0.200788	138.5138	8.650627	43.08334	3.64616	0.4368
-41.100	84.73	21.0816	0.208105	134.3209	8.694436	41.77918	3.535788	0.4214
-41.395	84.73	21.0816	0.210582	131.2062	8.593953	40.81041	3.453799	0.4165
-41.670	84.73	21.09896	0.224419	120.5444	8.414388	37.49413	3.173144	0.3908
-41.965	84.73	21.11633	0.243747	107.9658	8.185437	33.58168	2.842031	0.3598
-42.289	84.73	21.11633	0.245722	104.8511	8.013691	32.61289	2.760042	0.3569
-42.594	84.73	21.13369	0.222783	114.7942	7.954602	35.70559	3.021778	0.3937
-42.908	84.73	21.13369	0.214426	118.987	7.935853	37.00973	3.132147	0.4090
-43.203	84.73	21.13369	0.212862	119.8256	7.93349	37.27056	3.154222	0.4120
-43.488	84.73	21.13369	0.214458	120.185	8.016926	37.38236	3.163683	0.4089
-43.754	84.73	21.13369	0.22016	118.987	8.148043	37.00973	3.132147	0.3984
-44.039	84.73	21.13369	0.222124	119.8256	8.27868	37.27056	3.154222	0.3948
-44.324	84.73	21.13369	0.225694	118.6277	8.327642	36.89795	3.122689	0.3886
-44.609	84.73	21.13369	0.237637	112.2785	8.299001	34.92309	2.955557	0.3691
-44.914	84.73	21.13369	0.249253	105.9293	8.212428	32.94823	2.788424	0.3519
-45.209	84.73	21.11633	0.256928	101.2572	8.091973	31.49505	2.665438	0.3413
-45.524	84.73	21.11633	0.248612	101.4968	7.848563	31.56956	2.671745	0.3528
-45.828	84.73	21.09896	0.239064	101.8562	7.573863	31.68136	2.681206	0.3669
-46.124	84.73	21.0816	0.231803	102.2156	7.369743	31.79314	2.690666	0.3783
-46.419	84.73	21.06423	0.225906	102.6948	7.215929	31.94218	2.703281	0.3882
-46.714	84.73	21.04687	0.224798	101.976	7.13029	31.71861	2.684359	0.3901
-47.029	84.73	21.0295	0.23076	98.6217	7.078627	30.6753	2.596063	0.3801
-47.324	84.73	21.0295	0.236572	96.10599	7.071801	29.89279	2.52984	0.3707
-47.639	84.73	21.01214	0.241137	93.94965	7.046529	29.2221	2.473078	0.3637
-47.944	84.73	20.99478	0.2446	92.27251	7.020125	28.70043	2.42893	0.3585
-48.239	84.73	20.97741	0.253232	89.27761	7.031988	27.76892	2.350094	0.3463
-48.534	84.73	20.94268	0.261162	86.76189	7.047816	26.98641	2.283872	0.3358
-48.840	84.73	20.90796	0.262879	87.00148	7.113753	27.06094	2.290178	0.3336
-49.145	84.73	20.85586	0.278015	83.04821	7.18149	25.83131	2.186115	0.3155
-49.420	84.73	20.82113	0.289997	80.4127	7.253267	25.01157	2.116739	0.3024
-49.706	84.73	20.76904	0.306586	76.57922	7.302632	23.8192	2.015829	0.2861
-49.991	84.73	20.71695	0.341586	69.27166	7.359906	21.54626	1.823469	0.2567
-50.277	84.73	20.66486	0.364209	65.31839	7.399499	20.31663	1.719405	0.2408
-50.572	84.73	20.63013	0.338112	70.23003	7.385839	21.84435	1.848696	0.2594
-50.858	84.73	20.57804	0.305725	76.33963	7.25935	23.74469	2.009522	0.2869
-51.144	84.73	20.54331	0.297531	76.10004	7.042598	23.67016	2.003215	0.2948
-51.449	84.73	20.52594	0.29053	75.26146	6.801106	23.40932	1.981141	0.3019
-51.735	84.73	20.47385	0.28487	74.30309	6.583689	23.11124	1.955913	0.3079
-52.021	84.73	20.45649	0.301709	68.43308	6.422013	21.28542	1.801394	0.2907
-52.306	84.73	20.42176	0.30574	66.15696	6.291363	20.57747	1.741479	0.2868

-52.592	84.73	20.40439	0.31702	62.68287	6.180892	19.49688	1.650029	0.2766
-52.878	84.73	20.38703	0.3257	60.40675	6.119556	18.78891	1.590114	0.2693
-53.173	84.73	20.3523	0.331074	60.04736	6.183514	18.67712	1.580653	0.2649
-53.469	84.73	20.33494	0.334637	61.00573	6.3498	18.97521	1.605881	0.2621
-53.755	84.73	20.31757	0.33556	62.80267	6.554874	19.53415	1.653182	0.2614
-54.061	84.73	20.30021	0.340183	64.00063	6.771933	19.90675	1.684717	0.2578
-54.346	84.73	20.28284	0.351001	64.12042	7.000361	19.94402	1.68787	0.2499
-54.632	84.73	20.24812	0.374413	62.32348	7.258028	19.38509	1.640569	0.2342
-54.938	84.73	20.23075	0.400303	60.40675	7.521267	18.78892	1.590114	0.2191
-55.224	84.73	20.21339	0.42496	58.25042	7.69951	18.11821	1.533352	0.2064
-55.520	84.73	20.17866	0.441591	56.33368	7.737578	17.52203	1.482896	0.1986
-55.816	84.73	20.16129	0.440321	55.8545	7.649692	17.37298	1.470283	0.1992
-56.112	84.73	20.12657	0.448393	53.57837	7.472485	16.66502	1.410367	0.1956
-56.407	84.73	20.09184	0.464735	50.34387	7.27726	15.65896	1.325224	0.1887
-56.703	84.73	20.07447	0.472322	47.94795	7.044088	14.91373	1.262155	0.1857
-56.999	84.73	20.03975	0.468839	46.5104	6.782508	14.4666	1.224314	0.1871
-57.286	84.73	20.02238	0.437553	47.70836	6.492934	14.83921	1.255848	0.2004
-57.582	84.73	19.98765	0.410604	48.54693	6.200133	15.10004	1.277922	0.2136
-57.878	84.73	19.93556	0.394675	48.30734	5.930202	15.02552	1.271615	0.2222
-58.164	84.73	19.90083	0.378844	48.54693	5.720553	15.10004	1.277922	0.2315
-58.460	84.73	19.8661	0.374869	47.82816	5.576727	14.87647	1.259002	0.2340
-58.746	84.73	19.83138	0.378125	46.74999	5.498358	14.54112	1.230621	0.2319
-59.299	84.73	19.79665	0.382675	45.67183	5.436184	14.20577	1.20224	0.2292
-59.457	84.73	19.76192	0.391971	43.99468	5.363772	13.68411	1.158091	0.2237
-59.773	84.73	19.72719	0.396023	42.79672	5.271657	13.31149	1.126557	0.2215
-60.089	84.73	19.69246	0.394978	42.19774	5.18416	13.12519	1.11079	0.2220
-60.405	84.73	19.65773	0.389141	42.07794	5.093047	13.08792	1.107636	0.2254
-60.563	84.73	19.623	0.375727	42.55713	4.973486	13.23697	1.12025	0.2334
-60.879	84.73	19.58828	0.370334	42.19774	4.860704	13.12519	1.11079	0.2368
-61.195	84.73	19.55355	0.370893	41.11957	4.743654	12.78983	1.082409	0.2365
-61.353	84.73	19.51882	0.370803	40.16121	4.631977	12.49174	1.057181	0.2365
-61.669	84.73	19.50146	0.371345	39.20284	4.528051	12.19364	1.031954	0.2362
-61.985	84.73	19.46673	0.369214	38.72365	4.44703	12.0446	1.01934	0.2375
-62.143	84.73	19.432	0.367845	38.24447	4.375728	11.89556	1.006726	0.2384
-62.459	84.73	19.39727	0.368354	37.88508	4.340606	11.78378	0.997266	0.2381
-62.775	84.73	19.36254	0.376824	36.80692	4.31404	11.44842	0.968885	0.2327
-62.933	84.73	19.32781	0.383549	35.72875	4.262402	11.11307	0.940504	0.2287
-63.250	84.73	19.29309	0.384543	35.00997	4.187478	10.8895	0.921583	0.2281
-63.566	84.73	19.25836	0.38089	34.77038	4.11932	10.81498	0.915276	0.2303
-63.724	84.73	19.22363	0.373581	34.89017	4.054194	10.85224	0.918429	0.2348
-64.040	84.73	19.1889	0.365284	35.12977	3.991368	10.92676	0.924736	0.2401
-64.357	84.73	19.15417	0.359907	35.12977	3.932622	10.92676	0.924736	0.2437
-64.515	84.73	19.11944	0.362825	34.41099	3.883384	10.7032	0.905816	0.2417
-64.831	84.73	19.10208	0.370196	33.69221	3.879519	10.47963	0.886895	0.2369
-65.148	84.73	19.04999	0.381328	32.73384	3.882508	10.18154	0.861667	0.2300
-65.306	84.73	19.01526	0.391601	31.77548	3.870369	9.883445	0.83644	0.2240
-65.622	84.73	18.98053	0.396277	31.1765	3.842754	9.697139	0.820673	0.2213
-65.939	84.73	18.9458	0.397873	30.69731	3.79893	9.548093	0.808059	0.2204
-66.097	84.73	18.91107	0.402	29.97854	3.748454	9.324525	0.789138	0.2182
-66.413	84.73	18.87634	0.40311	29.37955	3.683703	9.138217	0.773371	0.2176
-66.730	84.73	18.84162	0.400463	29.02017	3.61475	9.026433	0.763911	0.2190
-66.888	84.73	18.82425	0.386078	29.49935	3.542454	9.175478	0.776524	0.2272
-67.205	84.73	18.78952	0.377941	29.49935	3.467788	9.175479	0.776524	0.2320
-67.521	84.73	18.7548	0.37543	29.02017	3.388791	9.026433	0.763911	0.2336
-67.680	84.73	18.73743	0.373613	28.54098	3.316708	8.877387	0.751297	0.2347
-67.996	84.73	18.7027	0.372188	28.18159	3.262448	8.765602	0.741836	0.2356
-68.313	84.73	18.7027	0.369031	28.18159	3.234777	8.765603	0.741836	0.2377
-68.471	84.73	18.68534	0.372085	28.0618	3.247682	8.728341	0.738683	0.2357
-68.788	84.73	18.65061	0.385753	27.46282	3.295113	8.542036	0.722916	0.2273
-69.105	84.73	18.63325	0.395573	27.34302	3.36426	8.504774	0.719762	0.2217
-69.263	84.73	18.59852	0.410333	26.86384	3.428631	8.355728	0.707149	0.2137
-69.580	84.73	18.56379	0.425598	26.26486	3.476892	8.169422	0.691382	0.2061
-69.897	84.73	18.5117	0.445011	25.42628	3.51941	7.908592	0.669307	0.1971
-70.055	84.73	18.47697	0.452213	25.18669	3.542669	7.834069	0.663	0.1939
-70.372	84.73	18.42488	0.455443	25.0669	3.551001	7.796809	0.659847	0.1926
-70.689	84.73	18.35542	0.457126	24.8273	3.530056	7.722285	0.65354	0.1919
-70.847	84.73	18.2686	0.453991	24.58771	3.472015	7.647762	0.647233	0.1932
-71.164	84.73	18.18178	0.461736	23.53201	3.379632	7.319397	0.619444	0.1899
-71.481	84.73	18.07759	0.461314	22.8881	3.28415	7.119115	0.602494	0.1901
-71.798	84.73	17.99077	0.457274	22.42389	3.189364	6.974728	0.590274	0.1918
-72.115	84.73	17.90395	0.455098	21.87733	3.096812	6.804723	0.575887	0.1927

-72.273	84.73	17.81713	0.452686	21.39814	3.012932	6.655678	0.563273	0.1937
-72.590	84.73	17.73031	0.453616	20.92644	2.952571	6.508961	0.550856	0.1933
-72.907	84.73	17.64349	0.456288	20.4248	2.898765	6.35293	0.537651	0.1922
-73.225	84.73	17.57403	0.460421	19.90069	2.849964	6.189911	0.523855	0.1905
-73.383	84.73	17.50457	0.46474	19.32417	2.79336	6.01059	0.508679	0.1887
-73.700	84.73	17.43512	0.461026	19.04714	2.731314	5.924423	0.501386	0.1902
-74.017	84.73	17.38302	0.451344	18.94981	2.660291	5.894149	0.498824	0.1943
-74.334	84.73	17.33093	0.442134	18.66529	2.566877	5.805653	0.491335	0.1984
-74.493	84.73	17.27884	0.439669	18.0738	2.471673	5.621674	0.475765	0.1995
-74.810	84.73	17.22675	0.431884	17.60959	2.365553	5.477286	0.463545	0.2031
-75.127	84.73	17.17465	0.428223	16.99563	2.263723	5.286321	0.447383	0.2048
-75.445	84.73	17.12256	0.422062	16.43409	2.157437	5.111659	0.432602	0.2078
-75.603	84.73	17.07047	0.421176	15.74526	2.062671	4.897406	0.414469	0.2082
-75.921	84.73	17.01838	0.421658	15.01151	1.968798	4.66918	0.395155	0.2080
-76.238	84.73	16.98365	0.426194	14.30771	1.896676	4.450269	0.376628	0.2058
-76.555	84.73	16.94892	0.430747	13.65632	1.829669	4.247661	0.359481	0.2036
-76.714	84.73	16.91419	0.426285	13.26698	1.75909	4.126561	0.349233	0.2057
-77.031	84.73	16.87946	0.422375	12.82523	1.684923	3.98916	0.337604	0.2076
-77.349	84.73	16.8621	0.412546	12.63056	1.620734	3.92861	0.33248	0.2126
-77.508	84.73	16.84473	0.402897	12.46584	1.562182	3.877376	0.328144	0.2177
-77.825	84.73	16.82737	0.390833	12.28615	1.493563	3.821485	0.323414	0.2244
-78.143	84.73	16.81001	0.37699	11.98666	1.405544	3.72833	0.31553	0.2326
-78.460	84.73	16.79264	0.369162	11.6123	1.333371	3.611889	0.305676	0.2376
-78.778	84.73	16.75791	0.367092	11.08819	1.266053	3.44887	0.291879	0.2389
-78.936	84.73	16.74055	0.365567	10.55659	1.200347	3.283523	0.277886	0.2399
-79.254	84.73	16.70582	0.365878	10.01751	1.140019	3.115846	0.263695	0.2397
-79.572	84.73	16.68846	0.367386	9.50089	1.085684	2.955157	0.250096	0.2387
-79.889	84.73	16.67109	0.3665	9.08909	1.036122	2.827071	0.239256	0.2393
-80.048	84.73	16.65373	0.360497	8.782113	0.98473	2.731589	0.231175	0.2433
-80.366	84.73	16.63636	0.361476	8.355339	0.939421	2.598845	0.219941	0.2426
-80.683	84.73	16.619	0.354959	8.123235	0.896857	2.52665	0.213832	0.2471
-81.001	84.73	16.60163	0.351819	7.831231	0.856969	2.435826	0.206145	0.2493
-81.160	84.73	16.58427	0.339126	7.741384	0.816575	2.40788	0.20378	0.2586
-81.478	84.73	16.56691	0.332714	7.516767	0.777891	2.338015	0.197867	0.2636
-81.796	84.73	16.54954	0.325814	7.284662	0.738237	2.265821	0.191757	0.2692
-82.113	84.73	16.54954	0.322978	6.985171	0.701724	2.172667	0.183874	0.2715
-82.272	84.73	16.53218	0.320607	6.685681	0.666706	2.079514	0.17599	0.2735
-82.590	84.73	16.51481	0.318744	6.386191	0.63314	1.986361	0.168107	0.2751
-82.908	84.73	16.49745	0.320683	6.064239	0.604878	1.886221	0.159632	0.2735
-83.067	84.73	16.48009	0.327166	5.682389	0.57825	1.767451	0.14958	0.2681
-83.385	84.73	16.46272	0.335747	5.308026	0.55432	1.651009	0.139726	0.2612
-83.703	84.73	16.44536	0.343618	4.963612	0.530506	1.543882	0.130659	0.2552
-84.021	84.73	16.42799	0.345265	4.731507	0.508122	1.471687	0.12455	0.2540
-84.180	84.73	16.41063	0.342762	4.529351	0.482886	1.408809	0.119228	0.2559
-84.498	84.73	16.39326	0.338547	4.349657	0.458027	1.352918	0.114498	0.2591
-84.816	84.73	16.39326	0.342933	4.057654	0.432813	1.262093	0.106811	0.2557
-84.975	84.73	16.3759	0.335292	3.900422	0.406771	1.213187	0.102673	0.2616
-85.293	84.73	16.35854	0.3297	3.728215	0.382327	1.159624	0.098139	0.2660
-85.611	84.73	16.34117	0.334089	3.436212	0.357074	1.068799	0.090453	0.2625
-85.770	84.73	16.34117	0.32576	3.293954	0.333758	1.024551	0.086708	0.2692
-86.088	84.73	16.34117	0.333202	3.001951	0.31112	0.933727	0.079022	0.2632
-86.407	84.73	16.34117	0.321753	2.86718	0.286942	0.891808	0.075474	0.2726
-86.566	84.73	16.32381	0.327624	2.612614	0.266237	0.812627	0.068773	0.2677
-86.884	84.73	16.30644	0.317991	2.500305	0.2473	0.777695	0.065817	0.2758
-87.043	84.73	16.30644	0.318962	2.313123	0.229485	0.719474	0.060889	0.2750
-87.361	84.73	16.28908	0.317156	2.155891	0.212675	0.670568	0.05675	0.2765
-4.155	98.93	21.82826	0.144116	327.9114	14.6989	101.9936	23.35712	0.7195
-4.457	98.93	21.82826	0.138672	295.2071	12.73304	91.82125	21.0276	0.7478
-4.797	98.93	21.82826	0.127296	286.5818	11.34692	89.13839	20.41322	0.8146
-5.147	98.93	21.82826	0.103694	314.1349	10.13175	97.70846	22.37582	1.0000
-5.517	98.93	21.82826	0.093803	314.1349	9.165338	97.70849	22.37582	1.1054
-5.867	98.93	21.82826	0.089834	300.4781	8.395916	93.46075	21.40305	1.1543
-6.218	98.93	21.82826	0.08793	283.2275	7.746214	88.0951	20.17429	1.1793
-6.578	98.93	21.82826	0.08528	272.5656	7.229974	84.77884	19.41484	1.2159
-6.889	98.93	21.82826	0.081096	271.0083	6.835972	84.29445	19.30392	1.2786
-7.200	98.93	21.82826	0.081945	256.2734	6.531913	79.7113	18.25435	1.2654
-7.492	98.93	21.82826	0.085433	237.2258	6.303822	73.78672	16.89759	1.2137
-7.794	98.93	21.82826	0.088656	223.569	6.165016	69.53893	15.92481	1.1696
-8.106	98.93	21.82826	0.089199	217.699	6.039973	67.71309	15.50669	1.1625
-8.407	98.93	21.82826	0.085825	219.496	5.859428	68.27203	15.6347	1.2082
-8.699	98.93	21.82826	0.084832	214.7041	5.665183	66.78158	15.29337	1.2223

-8.992	98.93	21.82826	0.082207	216.3813	5.532801	67.30324	15.41284	1.2614
-9.274	98.93	21.82826	0.080388	218.6574	5.467306	68.01119	15.57496	1.2899
-9.537	98.93	21.82826	0.083289	212.1884	5.496975	65.99909	15.11418	1.2450
-9.800	98.93	21.82826	0.084605	211.9488	5.577543	65.92459	15.09711	1.2256
-10.053	98.93	21.82826	0.085693	211.3498	5.633297	65.73824	15.05444	1.2101
-10.306	98.93	21.82826	0.085964	210.2717	5.622316	65.4029	14.97765	1.2062
-10.579	98.93	21.82826	0.08591	209.0737	5.586728	65.0303	14.89232	1.2070
-10.852	98.93	21.82826	0.085296	208.2351	5.524572	64.76947	14.83258	1.2157
-11.134	98.93	21.82826	0.085694	204.8808	5.460947	63.72615	14.59365	1.2100
-11.417	98.93	21.82826	0.085249	204.5215	5.423047	63.61437	14.56806	1.2164
-11.700	98.93	21.82826	0.085769	202.3651	5.398639	62.94364	14.41446	1.2090
-11.982	98.93	21.81089	0.085466	201.8859	5.366827	62.7946	14.38033	1.2133
-12.255	98.93	21.82826	0.08538	200.4484	5.323203	62.34749	14.27794	1.2145
-12.538	98.93	21.82826	0.085148	198.6514	5.26119	61.78857	14.14993	1.2178
-12.811	98.93	21.82826	0.08484	196.8545	5.194735	61.22965	14.02194	1.2222
-13.093	98.93	21.82826	0.084446	194.4586	5.107696	60.48442	13.85128	1.2279
-13.366	98.93	21.81089	0.08389	191.9429	5.008383	59.7019	13.67209	1.2361
-13.649	98.93	21.82826	0.08333	189.547	4.912834	58.95669	13.50143	1.2444
-13.932	98.93	21.82826	0.083852	185.2343	4.831168	57.61527	13.19424	1.2366
-14.195	98.93	21.82826	0.08517	179.6039	4.757918	55.86396	12.79318	1.2175
-14.468	98.93	21.81089	0.085884	175.6506	4.692207	54.63439	12.51159	1.2074
-14.731	98.93	21.82826	0.085813	173.8537	4.640354	54.07546	12.3836	1.2084
-14.995	98.93	21.81089	0.085202	173.2547	4.591477	53.88914	12.34093	1.2170
-15.268	98.93	21.81089	0.083949	173.7339	4.536467	54.03816	12.37506	1.2352
-15.531	98.93	21.81089	0.082297	174.3328	4.462525	54.22448	12.41772	1.2600
-15.804	98.93	21.81089	0.077794	179.1247	4.334312	55.71493	12.75905	1.3329
-16.077	98.93	21.82826	0.075308	179.6039	4.207024	55.86399	12.79318	1.3769
-16.351	98.93	21.82826	0.074834	176.3694	4.105212	54.85793	12.56279	1.3857
-16.702	98.93	21.82826	0.074369	173.1349	4.004929	53.85187	12.3324	1.3943
-17.022	98.93	21.82826	0.073857	171.4577	3.938835	53.33022	12.21293	1.4040
-17.341	98.93	21.82826	0.073783	169.6608	3.893629	52.77129	12.08494	1.4054
-17.641	98.93	21.81089	0.074555	166.4263	3.859374	51.76523	11.85454	1.3908
-17.949	98.93	21.81089	0.075451	163.4314	3.835467	50.83371	11.64122	1.3743
-18.239	98.93	21.81089	0.075545	161.7542	3.800827	50.31204	11.52175	1.3726
-18.533	98.93	21.81089	0.076074	158.4	3.748061	49.26873	11.28283	1.3631
-18.824	98.93	21.81089	0.078628	151.0924	3.695178	46.99578	10.76231	1.3188
-19.110	98.93	21.81089	0.081272	144.264	3.646826	44.87188	10.27592	1.2759
-19.383	98.93	21.81089	0.08135	142.7067	3.610906	44.38748	10.165	1.2747
-19.654	98.93	21.81089	0.080257	143.0661	3.571393	44.49927	10.1906	1.2920
-19.921	98.93	21.81089	0.079907	142.1077	3.531962	44.20117	10.12233	1.2977
-20.193	98.93	21.81089	0.081277	138.2742	3.495619	43.00882	9.849268	1.2758
-20.452	98.93	21.81089	0.083113	134.3209	3.472391	41.77918	9.567675	1.2476
-20.699	98.93	21.81089	0.086013	129.6489	3.468572	40.326	9.234888	1.2056
-20.956	98.93	21.81089	0.087607	127.0134	3.461006	39.50624	9.047162	1.1836
-21.281	98.93	21.81089	0.087277	126.5342	3.434978	39.3572	9.013028	1.1881
-21.535	98.93	21.81089	0.086788	125.9352	3.39957	39.17089	8.970362	1.1948
-21.789	98.93	21.81089	0.086654	124.3779	3.35233	38.68649	8.859435	1.1966
-22.053	98.93	21.81089	0.086565	122.5809	3.300523	38.12758	8.731435	1.1979
-22.337	98.93	21.81089	0.086047	121.0236	3.239098	37.64317	8.620508	1.2051
-22.620	98.93	21.81089	0.085106	119.586	3.165603	37.19604	8.518108	1.2184
-22.874	98.93	21.81089	0.084774	117.4297	3.096408	36.52533	8.364515	1.2232
-23.148	98.93	21.81089	0.084769	115.0338	3.03304	35.7801	8.193855	1.2233
-23.431	98.93	21.81089	0.085591	112.3983	2.992292	34.96035	8.006128	1.2115
-23.686	98.93	21.81089	0.086048	110.4815	2.956969	34.36417	7.869595	1.2051
-23.940	98.93	21.81089	0.086744	108.445	2.925949	33.73073	7.724535	1.1954
-24.194	98.93	21.81089	0.087107	106.7678	2.892729	33.20907	7.605068	1.1904
-24.458	98.93	21.81089	0.086702	106.0491	2.859901	32.9855	7.553875	1.1960
-24.722	98.93	21.81089	0.086259	105.3303	2.826026	32.76194	7.502675	1.2021
-24.986	98.93	21.81089	0.085532	104.8511	2.789458	32.61289	7.468542	1.2123
-25.250	98.93	21.81089	0.084664	104.2521	2.745363	32.42658	7.425875	1.2248
-25.524	98.93	21.81089	0.084938	102.6948	2.713105	31.94218	7.314948	1.2208
-25.788	98.93	21.81089	0.085331	101.0176	2.681141	31.42052	7.195481	1.2152
-26.052	98.93	21.81089	0.086296	98.7415	2.650371	30.71256	7.033355	1.2016
-26.317	98.93	21.81089	0.087547	96.46537	2.626812	30.00459	6.871226	1.1844
-26.581	98.93	21.81089	0.088554	94.30904	2.597632	29.33389	6.717631	1.1710
-26.845	98.93	21.81089	0.08941	92.6319	2.576096	28.81223	6.598168	1.1598
-27.109	98.93	21.81089	0.090182	90.83495	2.547934	28.2533	6.470171	1.1498
-27.373	98.93	21.81089	0.090331	89.63699	2.518497	27.88069	6.384841	1.1479
-27.638	98.93	21.81089	0.090414	88.67863	2.493857	27.5826	6.316577	1.1469
-27.912	98.93	21.81089	0.091117	87.24107	2.472508	27.13546	6.214179	1.1380
-28.166	98.93	21.81089	0.091667	86.4025	2.463505	26.87464	6.154448	1.1312

-28.430	98.93	21.81089	0.09306	85.44413	2.473211	26.57654	6.086183	1.1143
-28.695	98.93	21.81089	0.095459	84.48576	2.508519	26.27845	6.017919	1.0863
-28.959	98.93	21.81089	0.099443	83.2878	2.576143	25.90584	5.932588	1.0427
-29.233	98.93	21.82826	0.104565	82.32943	2.677678	25.60773	5.864323	0.9917
-29.488	98.93	21.82826	0.110074	81.01167	2.773622	25.19787	5.770459	0.9420
-29.762	98.93	21.82826	0.115307	79.33453	2.84533	24.67621	5.650997	0.8993
-30.026	98.93	21.84562	0.11911	77.89698	2.885931	24.22908	5.5486	0.8706
-30.281	98.93	21.84562	0.121632	76.33963	2.888112	23.74467	5.43767	0.8525
-30.555	98.93	21.86299	0.122355	75.14167	2.859691	23.37206	5.352339	0.8475
-30.820	98.93	21.88035	0.121913	73.82391	2.799379	22.96218	5.258475	0.8506
-31.084	98.93	21.89771	0.120635	72.62595	2.725083	22.58958	5.173145	0.8596
-31.359	98.93	21.89771	0.118258	71.66758	2.636138	22.29149	5.10488	0.8768
-31.633	98.93	21.91508	0.115774	70.70921	2.546254	21.99339	5.036615	0.8957
-31.907	98.93	21.91508	0.114354	69.39146	2.468153	21.58352	4.942752	0.9068
-32.172	98.93	21.91508	0.112911	68.43308	2.403363	21.28543	4.874487	0.9184
-32.446	98.93	21.88035	0.11191	67.59451	2.352863	21.0246	4.814755	0.9266
-32.711	98.93	21.86299	0.111617	66.51635	2.309269	20.68924	4.737958	0.9290
-32.985	98.93	21.82826	0.111073	65.43818	2.260772	20.35389	4.66116	0.9336
-33.250	98.93	21.81089	0.110235	64.36002	2.20675	20.01854	4.584363	0.9407
-33.525	98.93	21.79353	0.110225	63.16206	2.165472	19.64593	4.499032	0.9407
-33.789	98.93	21.77617	0.109786	62.20369	2.124117	19.34783	4.430767	0.9445
-34.074	98.93	21.7588	0.109405	61.36512	2.08821	19.08701	4.371036	0.9478
-34.348	98.93	21.7588	0.108998	60.52654	2.052019	18.82619	4.311304	0.9513
-34.623	98.93	21.7588	0.10936	59.44838	2.022148	18.49083	4.234507	0.9482
-34.897	98.93	21.77617	0.109695	58.37021	1.991568	18.15547	4.157709	0.9453
-35.162	98.93	21.77617	0.109965	57.29205	1.95959	17.82012	4.080911	0.9430
-35.437	98.93	21.77617	0.110035	56.33368	1.928035	17.52202	4.012647	0.9424
-35.711	98.93	21.79353	0.110473	55.37531	1.902776	17.22394	3.944382	0.9386
-35.976	98.93	21.79353	0.111595	54.29715	1.884686	16.88858	3.867585	0.9292
-36.241	98.93	21.81089	0.113109	53.45857	1.880745	16.62775	3.807853	0.9168
-36.516	98.93	21.82826	0.114642	52.62	1.87633	16.36692	3.748121	0.9045
-36.790	98.93	21.84562	0.117003	51.78143	1.884455	16.1061	3.68839	0.8863
-37.065	98.93	21.86299	0.120826	50.82306	1.910024	15.80801	3.620125	0.8582
-37.330	98.93	21.86299	0.124673	50.10428	1.942953	15.58443	3.568927	0.8317
-37.595	98.93	21.88035	0.128036	49.38551	1.966746	15.36087	3.517729	0.8099
-37.880	98.93	21.88035	0.131425	48.66673	1.989425	15.13729	3.46653	0.7890
-38.135	98.93	21.88035	0.134921	47.82816	2.007145	14.87647	3.406799	0.7686
-38.420	98.93	21.86299	0.138344	46.98958	2.021982	14.61564	3.347067	0.7495
-38.685	98.93	21.84562	0.141523	46.03121	2.026255	14.31755	3.278802	0.7327
-38.959	98.93	21.82826	0.144406	44.95305	2.019114	13.98219	3.202005	0.7181
-39.234	98.93	21.81089	0.145837	44.23427	2.006513	13.75863	3.150806	0.7110
-39.509	98.93	21.79353	0.147257	43.2759	1.982159	13.46054	3.082541	0.7042
-39.784	98.93	21.77617	0.1471	42.67692	1.952645	13.27423	3.039876	0.7049
-40.059	98.93	21.7588	0.1483	41.71856	1.924362	12.97614	2.971612	0.6992
-40.324	98.93	21.72407	0.151319	40.281	1.89587	12.529	2.869215	0.6853
-40.599	98.93	21.68934	0.150373	39.80182	1.861608	12.37996	2.835083	0.6896
-40.884	98.93	21.67198	0.153396	38.72365	1.847595	12.0446	2.758285	0.6760
-41.140	98.93	21.63725	0.163528	36.08814	1.835582	11.22486	2.570557	0.6341
-41.405	98.93	21.61989	0.175506	33.69221	1.83924	10.47962	2.399895	0.5908
-41.680	98.93	21.60252	0.18449	32.25466	1.850893	10.03249	2.297499	0.5621
-41.955	98.93	21.56779	0.188258	31.89527	1.86765	9.920705	2.271899	0.5508
-42.230	98.93	21.53307	0.183812	32.73384	1.871486	10.18153	2.331631	0.5641
-42.496	98.93	21.49834	0.182571	32.73384	1.858854	10.18153	2.331631	0.5680
-42.771	98.93	21.44625	0.181221	32.73384	1.84511	10.18154	2.331631	0.5722
-43.046	98.93	21.41152	0.176714	33.09324	1.818971	10.29332	2.357231	0.5868
-43.321	98.93	21.35942	0.172594	33.33283	1.789427	10.36784	2.374297	0.6008
-43.596	98.93	21.30733	0.172697	32.61405	1.751888	10.14427	2.323098	0.6004
-43.872	98.93	21.25524	0.175258	31.53588	1.719095	9.808923	2.2463	0.5917
-44.147	98.93	21.20315	0.17891	30.45772	1.69492	9.473572	2.169503	0.5796
-44.432	98.93	21.15105	0.182192	29.61915	1.678485	9.212739	2.109771	0.5691
-44.717	98.93	21.11633	0.184543	29.02017	1.665765	9.026432	2.067106	0.5619
-45.002	98.93	21.0816	0.186047	28.42119	1.644683	8.840128	2.024441	0.5574
-45.288	98.93	21.04687	0.185997	28.18159	1.630374	8.765603	2.007374	0.5575
-45.583	98.93	21.01214	0.185826	27.82221	1.608104	8.653818	1.981775	0.5580
-45.878	98.93	20.97741	0.184219	27.70241	1.587334	8.616559	1.973242	0.5629
-46.163	98.93	20.90796	0.18299	27.58261	1.569926	8.579297	1.964709	0.5667
-46.458	98.93	20.8385	0.181888	27.70241	1.567247	8.616558	1.973242	0.5701
-46.753	98.93	20.76904	0.179505	28.18159	1.573472	8.765601	2.007374	0.5777
-47.038	98.93	20.69958	0.179872	28.18159	1.576688	8.765602	2.007374	0.5765
-47.324	98.93	20.64749	0.182979	27.70241	1.576651	8.616556	1.973242	0.5667
-47.599	98.93	20.5954	0.1889	26.98363	1.585438	8.392987	1.922043	0.5489

-47.875	98.93	20.54331	0.196384	26.14506	1.597022	8.132159	1.862312	0.5280
-48.160	98.93	20.49121	0.204036	25.42628	1.613636	7.908591	1.811113	0.5082
-48.436	98.93	20.43912	0.208868	25.0669	1.628504	7.796805	1.785515	0.4965
-48.721	98.93	20.38703	0.213244	24.8273	1.646733	7.722284	1.768448	0.4863
-49.007	98.93	20.33494	0.220811	24.34812	1.672251	7.57324	1.734316	0.4696
-49.292	98.93	20.30021	0.23195	23.71919	1.711237	7.377615	1.689517	0.4471
-49.617	98.93	20.24812	0.240594	23.33734	1.746433	7.258846	1.662318	0.4310
-49.913	98.93	20.21339	0.246481	23.03036	1.765634	7.163363	1.640452	0.4207
-50.198	98.93	20.19602	0.252504	22.63354	1.777614	7.039935	1.612187	0.4107
-50.484	98.93	20.16129	0.259619	22.09446	1.784171	6.872261	1.573788	0.3994
-50.779	98.93	20.12657	0.267216	21.56286	1.792192	6.706912	1.535922	0.3881
-51.065	98.93	20.09184	0.271051	21.30829	1.796454	6.62773	1.517789	0.3826
-51.370	98.93	20.05711	0.270895	21.21096	1.787217	6.597456	1.510856	0.3828
-51.676	98.93	20.03975	0.270055	21.08368	1.770981	6.557867	1.50179	0.3840
-51.981	98.93	20.02238	0.27707	20.43977	1.761496	6.357587	1.455924	0.3743
-52.277	98.93	20.00502	0.287531	19.60869	1.753675	6.099087	1.396727	0.3606
-52.553	98.93	19.98765	0.292279	19.04714	1.731585	5.924423	1.356727	0.3548
-52.838	98.93	19.98765	0.291472	18.70273	1.695577	5.817296	1.332195	0.3558
-53.134	98.93	19.97029	0.28944	18.35831	1.652753	5.710171	1.307662	0.3583
-53.430	98.93	19.95292	0.286482	18.00641	1.604504	5.600715	1.282596	0.3620
-53.725	98.93	19.93556	0.281099	17.7219	1.549477	5.512218	1.262331	0.3689
-54.011	98.93	19.90083	0.28025	17.27266	1.505638	5.372489	1.230331	0.3700
-54.317	98.93	19.88347	0.275597	16.94322	1.4524	5.27002	1.206865	0.3763
-54.603	98.93	19.84874	0.273467	16.50896	1.404239	5.134948	1.175933	0.3792
-54.899	98.93	19.81401	0.270394	16.12711	1.356342	5.016177	1.148734	0.3835
-55.194	98.93	19.79665	0.268036	15.73029	1.311432	4.892749	1.120468	0.3869
-55.480	98.93	19.77928	0.262624	15.45326	1.262324	4.80658	1.100735	0.3948
-55.826	98.93	19.77928	0.26091	15.04895	1.221273	4.680823	1.071936	0.3974
-56.131	98.93	19.76192	0.257954	14.70453	1.179803	4.573698	1.047403	0.4020
-56.447	98.93	19.76192	0.256506	14.30771	1.14152	4.450269	1.019138	0.4043
-56.763	98.93	19.74455	0.252351	14.03068	1.101286	4.364104	0.999405	0.4109
-57.078	98.93	19.74455	0.247869	13.74616	1.05979	4.275606	0.979139	0.4183
-57.404	98.93	19.72719	0.243095	13.46914	1.018432	4.18944	0.959407	0.4266
-57.700	98.93	19.72719	0.239878	13.09477	0.977022	4.072999	0.93274	0.4323
-58.006	98.93	19.70983	0.234818	12.87764	0.940556	4.005461	0.917274	0.4416
-58.322	98.93	19.69246	0.233747	12.51077	0.909592	3.891349	0.891142	0.4436
-58.618	98.93	19.6751	0.23098	12.27866	0.882147	3.819154	0.874609	0.4489
-59.141	98.93	19.65773	0.231194	11.91179	0.856583	3.705043	0.848477	0.4485
-59.457	98.93	19.623	0.229797	11.71712	0.837494	3.644493	0.83461	0.4512
-59.615	98.93	19.60564	0.227426	11.59732	0.820379	3.60723	0.826077	0.4559
-59.931	98.93	19.58828	0.22669	11.38768	0.802942	3.542023	0.811144	0.4574
-60.247	98.93	19.55355	0.221791	11.33527	0.781973	3.52572	0.807411	0.4675
-60.563	98.93	19.53618	0.220158	11.1406	0.762884	3.465172	0.793545	0.4710
-60.879	98.93	19.51882	0.217355	11.03578	0.746086	3.432569	0.786078	0.4771
-61.037	98.93	19.50146	0.217989	10.77372	0.730494	3.351059	0.767412	0.4757
-61.353	98.93	19.46673	0.219629	10.51916	0.718598	3.271879	0.74928	0.4721
-61.669	98.93	19.44936	0.220541	10.35444	0.710283	3.220644	0.737547	0.4702
-61.985	98.93	19.432	0.224008	10.10736	0.704235	3.143793	0.719947	0.4629
-62.301	98.93	19.39727	0.223856	10.025	0.698023	3.118176	0.714081	0.4632
-62.459	98.93	19.36254	0.225463	9.852791	0.690956	3.064613	0.701814	0.4599
-62.775	98.93	19.32781	0.227486	9.650635	0.682852	3.001733	0.687415	0.4558
-63.092	98.93	19.27572	0.225799	9.583249	0.673056	2.980774	0.682615	0.4592
-63.408	98.93	19.24099	0.227695	9.373606	0.66386	2.915566	0.667682	0.4554
-63.566	98.93	19.20626	0.228625	9.178938	0.652729	2.855018	0.653816	0.4536
-63.882	98.93	19.15417	0.228724	9.036679	0.64289	2.810768	0.643682	0.4534
-64.199	98.93	19.11944	0.22787	8.946833	0.634122	2.782822	0.637283	0.4551
-64.515	98.93	19.08471	0.230888	8.699753	0.624777	2.705971	0.619683	0.4491
-64.673	98.93	19.04999	0.231684	8.512571	0.613442	2.64775	0.60635	0.4476
-64.989	98.93	19.01526	0.2314	8.340364	0.600294	2.594187	0.594084	0.4481
-65.306	98.93	18.99789	0.230013	8.198107	0.586519	2.54994	0.583951	0.4508
-65.622	98.93	18.98053	0.22632	8.10826	0.570778	2.521994	0.577551	0.4582
-65.780	98.93	18.9458	0.222597	8.018413	0.555167	2.494047	0.571151	0.4658
-66.097	98.93	18.92844	0.219385	7.913591	0.540004	2.461443	0.563685	0.4727
-66.413	98.93	18.91107	0.217408	7.771333	0.525517	2.417196	0.553552	0.4770
-66.730	98.93	18.89371	0.215438	7.621588	0.510722	2.370619	0.542886	0.4813
-66.888	98.93	18.87634	0.21399	7.456869	0.496325	2.319385	0.531153	0.4846
-67.205	98.93	18.85898	0.2142	7.254713	0.483343	2.256506	0.516753	0.4841
-67.521	98.93	18.84162	0.213918	7.089993	0.471747	2.205271	0.50502	0.4847
-67.680	98.93	18.82425	0.2109	7.045069	0.462145	2.191298	0.50182	0.4917
-67.996	98.93	18.78952	0.209566	6.932761	0.4519	2.156366	0.49382	0.4948
-68.313	98.93	18.77216	0.206062	6.895324	0.441945	2.144722	0.491154	0.5032

-68.630	98.93	18.7548	0.20447	6.805477	0.432816	2.116775	0.484754	0.5071
-68.788	98.93	18.72007	0.206193	6.610808	0.423979	2.056226	0.470888	0.5029
-69.105	98.93	18.7027	0.206368	6.468551	0.415208	2.011978	0.460755	0.5025
-69.421	98.93	18.66797	0.204802	6.393678	0.407287	1.988689	0.455422	0.5063
-69.580	98.93	18.61588	0.204011	6.318806	0.400964	1.965401	0.450088	0.5083
-69.897	98.93	18.59852	0.204803	6.213984	0.395842	1.932798	0.442622	0.5063
-70.213	98.93	18.56379	0.206231	6.094188	0.390918	1.895536	0.434089	0.5028
-70.372	98.93	18.52906	0.208837	5.936955	0.385645	1.846631	0.422889	0.4965
-70.689	98.93	18.49433	0.208461	5.884545	0.381553	1.830329	0.419156	0.4974
-71.006	98.93	18.44224	0.206805	5.832134	0.37515	1.814027	0.415423	0.5014
-71.322	98.93	18.40751	0.208865	5.674901	0.368672	1.765121	0.404223	0.4965
-71.481	98.93	18.37278	0.206834	5.644952	0.36316	1.755806	0.40209	0.5013
-71.798	98.93	18.35542	0.203852	5.622491	0.3565	1.74882	0.40049	0.5087
-72.115	98.93	18.32069	0.204958	5.465258	0.34841	1.699914	0.38929	0.5059
-72.273	98.93	18.30333	0.202407	5.427822	0.341718	1.68827	0.386624	0.5123
-72.590	98.93	18.28596	0.201925	5.323	0.334321	1.655666	0.379157	0.5135
-72.907	98.93	18.2686	0.201891	5.225666	0.328152	1.625391	0.372224	0.5136
-73.066	98.93	18.23387	0.200757	5.158281	0.322101	1.604431	0.367424	0.5165
-73.383	98.93	18.21651	0.203418	5.001049	0.316422	1.555526	0.356225	0.5098
-73.700	98.93	18.19914	0.199949	4.978587	0.309629	1.54854	0.354625	0.5186
-73.859	98.93	18.16441	0.202478	4.80638	0.302699	1.494977	0.342358	0.5121
-74.176	98.93	18.12968	0.198445	4.776431	0.294822	1.485661	0.340225	0.5225
-74.493	98.93	18.11232	0.19659	4.694071	0.287029	1.460044	0.334359	0.5275
-74.652	98.93	18.07759	0.190134	4.701558	0.278047	1.462373	0.334892	0.5454
-74.969	98.93	18.06023	0.189427	4.596736	0.270837	1.429769	0.327425	0.5474
-75.286	98.93	18.04286	0.183822	4.596736	0.262823	1.429769	0.327425	0.5641
-75.445	98.93	18.0255	0.184765	4.454479	0.255995	1.385521	0.317292	0.5612
-75.762	98.93	17.99077	0.180868	4.439504	0.249755	1.380864	0.316226	0.5733
-76.079	98.93	17.97341	0.181372	4.319708	0.243692	1.343602	0.307693	0.5717
-76.238	98.93	17.95604	0.179233	4.282272	0.23873	1.331958	0.305026	0.5785
-76.555	98.93	17.93868	0.180556	4.154988	0.233345	1.292368	0.29596	0.5743
-76.873	98.93	17.92131	0.177497	4.132526	0.228152	1.285381	0.29436	0.5842
-77.031	98.93	17.90395	0.178873	4.020218	0.223671	1.250449	0.28636	0.5797
-77.349	98.93	17.88659	0.174277	4.035192	0.218736	1.255106	0.287427	0.5950
-77.666	98.93	17.88659	0.174653	3.922884	0.213107	1.220174	0.279427	0.5937
-77.825	98.93	17.86922	0.168638	3.952832	0.207338	1.229489	0.28156	0.6149
-78.143	98.93	17.85186	0.169279	3.825549	0.201425	1.189899	0.272494	0.6126
-78.460	98.93	17.83449	0.162947	3.855498	0.195408	1.199214	0.274627	0.6364
-78.778	98.93	17.81713	0.161493	3.765651	0.189152	1.171268	0.268227	0.6421
-78.936	98.93	17.81713	0.16258	3.638368	0.183989	1.131678	0.259161	0.6378
-79.254	98.93	17.79976	0.156761	3.675804	0.179228	1.143322	0.261827	0.6615
-79.572	98.93	17.76504	0.155622	3.608419	0.174665	1.122363	0.257028	0.6663
-79.730	98.93	17.74767	0.154793	3.533546	0.170129	1.099074	0.251694	0.6699
-80.048	98.93	17.71294	0.154164	3.443699	0.165129	1.071128	0.245295	0.6726
-80.207	98.93	17.69558	0.151859	3.41375	0.161246	1.061813	0.243161	0.6828
-80.525	98.93	17.66085	0.147008	3.436212	0.157122	1.068799	0.244761	0.7054
-80.842	98.93	17.64349	0.146556	3.361339	0.153226	1.045511	0.239428	0.7075
-81.001	98.93	17.62612	0.145709	3.301441	0.149626	1.02688	0.235162	0.7116
-81.319	98.93	17.59139	0.144365	3.256518	0.146228	1.012907	0.231962	0.7183
-81.637	98.93	17.57403	0.141412	3.278979	0.144225	1.019894	0.233562	0.7333
-81.954	98.93	17.5393	0.142363	3.211594	0.142211	0.998934	0.228762	0.7284
-82.113	98.93	17.50457	0.144553	3.121747	0.140359	0.970989	0.222362	0.7173
-82.431	98.93	17.48721	0.143539	3.129234	0.139709	0.973317	0.222895	0.7224
-82.590	98.93	17.45248	0.143377	3.129234	0.139551	0.973317	0.222895	0.7232
-82.908	98.93	17.41775	0.146178	3.061849	0.139214	0.952358	0.218095	0.7094
-83.226	98.93	17.40039	0.149778	3.009438	0.140201	0.936056	0.214362	0.6923
-83.385	98.93	17.38302	0.151522	3.001951	0.14148	0.933727	0.213829	0.6843
-83.703	98.93	17.3483	0.153444	2.972002	0.141845	0.924412	0.211696	0.6758
-84.021	98.93	17.31357	0.155866	2.919591	0.141543	0.90811	0.207962	0.6653
-84.180	98.93	17.26147	0.156762	2.859693	0.139437	0.889479	0.203696	0.6615
-84.498	98.93	17.20938	0.156543	2.81477	0.137054	0.875506	0.200496	0.6624
-84.816	98.93	17.15729	0.150987	2.822257	0.132542	0.877835	0.201029	0.6868
-84.975	98.93	17.08783	0.143321	2.829744	0.126146	0.880164	0.201563	0.7235
-85.293	98.93	17.01838	0.13578	2.807282	0.11856	0.873177	0.199963	0.7637
-85.452	98.93	16.94892	0.129479	2.762359	0.111248	0.859204	0.196763	0.8009
-85.770	98.93	16.8621	0.124773	2.702461	0.10488	0.840573	0.192496	0.8311
-86.088	98.93	16.75791	0.120105	2.635075	0.09844	0.819614	0.187696	0.8634
-86.248	98.93	16.63636	0.114958	2.605126	0.09315	0.810298	0.185563	0.9020
-86.566	98.93	16.53218	0.110803	2.552716	0.087977	0.793997	0.18183	0.9358
-86.884	98.93	16.39326	0.108039	2.500305	0.084022	0.777695	0.178097	0.9598
-87.043	98.93	16.27172	0.104774	2.470356	0.080506	0.76838	0.175963	0.9897

-3.310	132.3	22.36655	0.080113	42.31754	1.054477	13.16244	14.55318	1.2944
-3.582	132.3	22.36655	0.086319	37.0465	0.994645	11.52295	12.74045	1.2013
-3.835	132.3	22.36655	0.088936	34.41099	0.951895	10.70319	11.83408	1.1659
-4.087	132.3	22.36655	0.083744	34.77038	0.905694	10.81498	11.95768	1.2382
-4.330	132.3	22.36655	0.079615	34.53079	0.8551	10.74046	11.87528	1.3024
-4.574	132.3	22.36655	0.078639	32.61405	0.79774	10.14427	11.21611	1.3186
-4.836	132.3	22.36655	0.077338	31.1765	0.749961	9.697136	10.72173	1.3408
-5.118	132.3	22.36655	0.073827	31.29629	0.718662	9.734401	10.76293	1.4045
-5.391	132.3	22.38391	0.067696	32.97344	0.694298	10.25606	11.3397	1.5317
-5.702	132.3	22.36655	0.066208	32.85364	0.676563	10.2188	11.29851	1.5662
-6.003	132.3	22.36655	0.06719	31.29629	0.654052	9.734399	10.76293	1.5433
-6.266	132.3	22.38391	0.067494	30.57752	0.641923	9.51083	10.51574	1.5363
-6.558	132.3	22.36655	0.066494	30.69731	0.634888	9.548093	10.55693	1.5595
-6.821	132.3	22.38391	0.066201	30.45772	0.627159	9.47357	10.47454	1.5663
-7.074	132.3	22.36655	0.064631	30.69731	0.617102	9.548094	10.55693	1.6044
-7.298	132.3	22.38391	0.066406	29.49935	0.609311	9.175476	10.14495	1.5615
-7.590	132.3	22.38391	0.067428	28.42119	0.596071	8.840129	9.774167	1.5378
-7.891	132.3	22.38391	0.069476	26.74404	0.577933	8.318467	9.197388	1.4925
-8.193	132.3	22.38391	0.068195	26.14506	0.55457	8.132162	8.991396	1.5206
-8.485	132.3	22.38391	0.066383	25.78567	0.532418	8.020377	8.8678	1.5620
-8.807	132.3	22.38391	0.065089	25.42628	0.51476	7.908591	8.744205	1.5931
-9.128	132.3	22.38391	0.065196	24.70751	0.501029	7.685026	8.497017	1.5905
-9.430	132.3	22.38391	0.063011	24.9471	0.488937	7.759546	8.579413	1.6456
-9.751	132.3	22.38391	0.061297	25.0669	0.477922	7.79681	8.620612	1.6917
-10.063	132.3	22.40128	0.058252	25.78567	0.467205	8.020377	8.8678	1.7801
-10.316	132.3	22.40128	0.057287	25.78567	0.459463	8.020376	8.8678	1.8101
-10.579	132.3	22.40128	0.057017	25.66588	0.455171	7.983115	8.826604	1.8187
-10.842	132.3	22.40128	0.056722	25.78567	0.454931	8.020379	8.8678	1.8281
-11.056	132.3	22.40128	0.058314	25.0669	0.454661	7.796806	8.620612	1.7782
-11.281	132.3	22.40128	0.059272	24.58771	0.453301	7.647764	8.455817	1.7494
-11.495	132.3	22.40128	0.0612	23.60688	0.449374	7.342681	8.118505	1.6943
-11.758	132.3	22.40128	0.061297	23.2999	0.444233	7.247205	8.012934	1.6917
-12.002	132.3	22.40128	0.061046	23.05282	0.437718	7.170348	7.927962	1.6986
-12.284	132.3	22.40128	0.060162	22.97046	0.429838	7.144734	7.899638	1.7236
-12.547	132.3	22.41864	0.059601	22.68595	0.420561	7.056238	7.801794	1.7398
-12.850	132.3	22.41864	0.060779	21.70512	0.410327	6.75116	7.464482	1.7061
-13.162	132.3	22.41864	0.060584	21.17352	0.398992	6.585813	7.281663	1.7116
-13.503	132.3	22.41864	0.061593	20.32746	0.389428	6.322654	6.990699	1.6835
-13.844	132.3	22.41864	0.060951	20.20018	0.382958	6.283064	6.946927	1.7013
-14.195	132.3	22.41864	0.060901	19.99054	0.378674	6.217857	6.874831	1.7027
-14.517	132.3	22.41864	0.059917	20.19269	0.376321	6.280735	6.944351	1.7306
-14.829	132.3	22.41864	0.059148	20.34244	0.374246	6.327312	6.995851	1.7531
-15.141	132.3	22.41864	0.058602	20.40233	0.371883	6.345942	7.016447	1.7695
-15.434	132.3	22.436	0.058465	20.27505	0.368704	6.306352	6.972675	1.7736
-15.765	132.3	22.436	0.05844	20.09536	0.365276	6.25046	6.910879	1.7744
-16.068	132.3	22.436	0.058181	20.02797	0.362438	6.229501	6.887703	1.7823
-16.370	132.3	22.436	0.058899	19.55627	0.35827	6.082784	6.725484	1.7605
-16.734	132.3	22.45337	0.06027	18.90488	0.354397	5.880175	6.501468	1.7205
-17.080	132.3	22.45337	0.061715	18.11872	0.347804	5.635647	6.231104	1.6802
-17.423	132.3	22.45337	0.061636	17.76682	0.340613	5.526193	6.110084	1.6824
-17.729	132.3	22.47073	0.061712	17.35502	0.333125	5.398107	5.968464	1.6803
-18.059	132.3	22.47073	0.061896	16.90579	0.325475	5.258376	5.813972	1.6753
-18.393	132.3	22.47073	0.06119	16.71112	0.318055	5.197826	5.747025	1.6946
-18.707	132.3	22.47073	0.060114	16.67368	0.311761	5.186182	5.734149	1.7250
-19.017	132.3	22.47073	0.060178	16.32178	0.305505	5.076726	5.613129	1.7231
-19.352	132.3	22.47073	0.060272	16.04475	0.300791	4.99056	5.517857	1.7204
-19.690	132.3	22.4881	0.060353	15.86506	0.29782	4.934668	5.456061	1.7181
-20.009	132.3	22.4881	0.060499	15.70782	0.295582	4.885762	5.401985	1.7140
-20.328	132.3	22.4881	0.059942	15.77521	0.294117	4.906722	5.425161	1.7299
-20.646	132.3	22.4881	0.059352	15.82762	0.292194	4.923024	5.443185	1.7471
-20.969	132.3	22.4881	0.05983	15.64793	0.291198	4.867132	5.381389	1.7332
-21.379	132.3	22.4881	0.059882	15.57305	0.290059	4.843843	5.355637	1.7316
-21.672	132.3	22.4881	0.060804	15.26608	0.288717	4.748361	5.250069	1.7054
-21.975	132.3	22.4881	0.06164	14.99654	0.28752	4.664523	5.157373	1.6823
-22.298	132.3	22.50546	0.062682	14.67458	0.286103	4.564383	5.04665	1.6543
-22.298	132.3	22.50546	0.062819	14.67458	0.286732	4.564383	5.04665	1.6507
-23.500	132.3	22.50546	0.067349	13.77611	0.288587	4.284922	4.737662	1.5396
-23.822	132.3	22.50546	0.068782	13.64134	0.291843	4.243003	4.691314	1.5076
-24.145	132.3	22.50546	0.070888	13.40924	0.295662	4.170809	4.611494	1.4628
-24.458	132.3	22.50546	0.072318	13.33436	0.299942	4.147521	4.585743	1.4339
-24.781	132.3	22.4881	0.075425	12.98995	0.304746	4.040394	4.467299	1.3748

-25.113	132.3	22.4881	0.078568	12.61559	0.308298	3.923953	4.338555	1.3198
-25.426	132.3	22.45337	0.078568	12.72041	0.310857	3.956557	4.374603	1.3198
-25.651	132.3	22.436	0.079244	12.6081	0.310764	3.921624	4.335979	1.3085
-25.984	132.3	22.36655	0.079995	12.46584	0.310172	3.877376	4.287055	1.2962
-26.248	132.3	22.31446	0.080767	12.30861	0.309212	3.828471	4.232983	1.2839
-26.542	132.3	22.245	0.081791	12.10645	0.307991	3.765592	4.163459	1.2678
-26.864	132.3	22.19291	0.081958	12.00912	0.306139	3.735317	4.129987	1.2652
-27.119	132.3	22.14081	0.082966	11.79948	0.304494	3.67011	4.057891	1.2498
-27.452	132.3	22.10609	0.084017	11.57486	0.302482	3.600244	3.980643	1.2342
-27.755	132.3	22.07136	0.083869	11.4925	0.299802	3.574627	3.952319	1.2364
-28.068	132.3	22.05399	0.08585	11.18552	0.298685	3.479145	3.846747	1.2078
-28.391	132.3	22.01926	0.086508	10.99834	0.295936	3.420924	3.782375	1.1987
-28.695	132.3	22.0019	0.087759	10.69885	0.292041	3.327771	3.67938	1.1816
-29.028	132.3	21.98454	0.088031	10.49669	0.287412	3.264892	3.609856	1.1779
-29.341	132.3	21.96717	0.089193	10.20469	0.283103	3.174068	3.509436	1.1626
-29.674	132.3	21.94981	0.088819	10.03249	0.277161	3.120504	3.450216	1.1675
-30.007	132.3	21.94981	0.089496	9.732994	0.270936	3.02735	3.347218	1.1586
-30.350	132.3	21.93244	0.090147	9.463453	0.265348	2.943513	3.254521	1.1503
-30.683	132.3	21.91508	0.089761	9.276272	0.258986	2.885292	3.190149	1.1552
-31.006	132.3	21.91508	0.086962	9.25381	0.250303	2.878305	3.182424	1.1924
-31.310	132.3	21.89771	0.085652	9.051654	0.241147	2.815426	3.112902	1.2106
-31.623	132.3	21.88035	0.083515	8.946833	0.232408	2.782823	3.076854	1.2416
-31.937	132.3	21.88035	0.082674	8.744677	0.224867	2.719945	3.007331	1.2543
-32.280	132.3	21.88035	0.081289	8.609906	0.217695	2.678025	2.960983	1.2756
-32.574	132.3	21.89771	0.080357	8.467649	0.211643	2.633778	2.91206	1.2904
-32.878	132.3	21.89771	0.07952	8.332877	0.206104	2.591859	2.865711	1.3040
-33.201	132.3	21.91508	0.079178	8.183132	0.201531	2.545282	2.814214	1.3096
-33.505	132.3	21.91508	0.078103	8.115747	0.197157	2.524322	2.79104	1.3277
-33.809	132.3	21.93244	0.078121	7.973489	0.193745	2.480074	2.742116	1.3274
-34.123	132.3	21.93244	0.077532	7.883642	0.190119	2.452128	2.711218	1.3374
-34.436	132.3	21.93244	0.077906	7.711435	0.186863	2.398565	2.651995	1.3310
-34.740	132.3	21.94981	0.078395	7.56169	0.184385	2.351988	2.600497	1.3227
-35.064	132.3	21.93244	0.079245	7.34456	0.181032	2.284452	2.525825	1.3085
-35.397	132.3	21.93244	0.079469	7.209789	0.178211	2.242533	2.479477	1.3048
-35.731	132.3	21.91508	0.080389	7.015121	0.175408	2.181983	2.41253	1.2899
-36.055	132.3	21.89771	0.081406	6.812964	0.172507	2.119105	2.343007	1.2738
-36.398	132.3	21.86299	0.081914	6.670707	0.169959	2.074857	2.294084	1.2659
-36.722	132.3	21.84562	0.082656	6.513474	0.167457	2.025951	2.240011	1.2545
-37.046	132.3	21.82826	0.082138	6.461063	0.165068	2.009649	2.221987	1.2624
-37.360	132.3	21.81089	0.082852	6.311318	0.162644	1.963072	2.170489	1.2516
-37.674	132.3	21.77617	0.082728	6.221471	0.160089	1.935127	2.13959	1.2534
-37.997	132.3	21.7588	0.08403	6.056752	0.158304	1.883892	2.082943	1.2340
-38.312	132.3	21.74144	0.083711	5.996853	0.156143	1.865261	2.062343	1.2387
-38.596	132.3	21.72407	0.082546	5.966905	0.153201	1.855946	2.052044	1.2562
-38.881	132.3	21.70671	0.082678	5.862083	0.15075	1.823342	2.015995	1.2542
-39.175	132.3	21.68934	0.082273	5.794698	0.148288	1.802383	1.992821	1.2604
-39.490	132.3	21.67198	0.082403	5.704851	0.146219	1.774437	1.961922	1.2584
-39.814	132.3	21.65462	0.084183	5.525156	0.144673	1.718545	1.900124	1.2318
-40.138	132.3	21.63725	0.08557	5.367924	0.14287	1.669639	1.846052	1.2118
-40.462	132.3	21.61989	0.086383	5.225666	0.140407	1.625391	1.797129	1.2004
-40.776	132.3	21.60252	0.08816	5.030997	0.137956	1.564841	1.730181	1.1762
-41.081	132.3	21.58516	0.088628	4.926176	0.1358	1.532238	1.694133	1.1700
-41.385	132.3	21.56779	0.088086	4.85879	0.133122	1.511278	1.670958	1.1772
-41.690	132.3	21.55043	0.085282	4.88874	0.12968	1.520594	1.681258	1.2159
-41.994	132.3	21.53307	0.084889	4.798892	0.126709	1.492648	1.650359	1.2215
-42.309	132.3	21.49834	0.086049	4.619198	0.123631	1.436755	1.588562	1.2051
-42.633	132.3	21.48097	0.085893	4.521864	0.120807	1.406481	1.555088	1.2072
-42.948	132.3	21.46361	0.086686	4.402068	0.118692	1.369219	1.51389	1.1962
-43.242	132.3	21.44625	0.086308	4.349657	0.116768	1.352917	1.495865	1.2014
-43.537	132.3	21.41152	0.084116	4.379606	0.114586	1.362233	1.506165	1.2327
-43.852	132.3	21.39415	0.084912	4.274785	0.112901	1.329629	1.470117	1.2212
-44.157	132.3	21.37679	0.083644	4.267297	0.111021	1.3273	1.467541	1.2397
-44.461	132.3	21.35942	0.083463	4.207399	0.109225	1.30867	1.446942	1.2424
-44.766	132.3	21.34206	0.084231	4.080116	0.106896	1.269079	1.403169	1.2311
-45.091	132.3	21.3247	0.085035	3.975294	0.105143	1.236475	1.36712	1.2194
-45.415	132.3	21.30733	0.085651	3.907909	0.10411	1.215516	1.343946	1.2107
-45.720	132.3	21.28997	0.085879	3.870473	0.103387	1.203872	1.331072	1.2074
-46.025	132.3	21.2726	0.088993	3.735702	0.103406	1.161953	1.284724	1.1652
-46.340	132.3	21.25524	0.090638	3.63088	0.102362	1.129349	1.248675	1.1440
-46.635	132.3	21.25524	0.092466	3.541033	0.101843	1.101403	1.217776	1.1214
-46.911	132.3	21.23787	0.096839	3.368826	0.101472	1.04784	1.158553	1.0708

-47.166	132.3	21.22051	0.096142	3.376314	0.100965	1.050169	1.161129	1.0786
-47.452	132.3	21.20315	0.094344	3.406263	0.099956	1.059484	1.171428	1.0991
-47.737	132.3	21.20315	0.095479	3.308928	0.098268	1.029209	1.137954	1.0860
-48.003	132.3	21.18578	0.098272	3.181645	0.097252	0.989619	1.094181	1.0552
-48.259	132.3	21.16842	0.101202	3.069336	0.096616	0.954687	1.055558	1.0246
-48.515	132.3	21.15105	0.106097	2.904617	0.095853	0.903452	0.99891	0.9774
-48.761	132.3	21.15105	0.10718	2.882155	0.096083	0.896465	0.991185	0.9675
-49.036	132.3	21.13369	0.106672	2.882155	0.095628	0.896466	0.991185	0.9721
-49.312	132.3	21.11633	0.108013	2.829744	0.095069	0.880163	0.973161	0.9600
-49.578	132.3	21.09896	0.106228	2.859693	0.094487	0.889479	0.98346	0.9761
-49.873	132.3	21.0816	0.108716	2.777333	0.093916	0.863861	0.955137	0.9538
-50.159	132.3	21.06423	0.110168	2.717435	0.093117	0.845231	0.934537	0.9412
-50.444	132.3	21.04687	0.108417	2.762359	0.093152	0.859204	0.949987	0.9564
-50.740	132.3	21.01214	0.108912	2.754871	0.093324	0.856875	0.947412	0.9521
-51.026	132.3	20.99478	0.111092	2.694973	0.093122	0.838245	0.926813	0.9334
-51.311	132.3	20.96005	0.119062	2.537741	0.093981	0.789339	0.87274	0.8709
-51.577	132.3	20.94268	0.128467	2.365534	0.094523	0.735776	0.813517	0.8072
-51.804	132.3	20.90796	0.134045	2.298149	0.095818	0.714817	0.790343	0.7736
-52.060	132.3	20.87323	0.136768	2.275687	0.096808	0.70783	0.782618	0.7582
-52.336	132.3	20.8385	0.135985	2.298149	0.097204	0.714816	0.790343	0.7625
-52.602	132.3	20.80377	0.136111	2.305636	0.097611	0.717145	0.792918	0.7618
-52.888	132.3	20.76904	0.140362	2.245738	0.098045	0.698514	0.772319	0.7388
-53.164	132.3	20.73431	0.142876	2.208302	0.098137	0.68687	0.759444	0.7258
-53.469	132.3	20.69958	0.146095	2.170866	0.098647	0.675226	0.74657	0.7098
-53.765	132.3	20.66486	0.148237	2.163378	0.099748	0.672897	0.743995	0.6995
-54.061	132.3	20.61276	0.152838	2.148404	0.102133	0.668239	0.738845	0.6785
-54.376	132.3	20.56067	0.163052	2.081018	0.10554	0.64728	0.715671	0.6360
-54.662	132.3	20.50858	0.175341	2.02112	0.110228	0.628649	0.695072	0.5914
-54.938	132.3	20.45649	0.187915	1.968709	0.11507	0.612347	0.677047	0.5518
-55.224	132.3	20.42176	0.203671	1.916299	0.121397	0.596046	0.659023	0.5091
-55.500	132.3	20.38703	0.21713	1.893837	0.127902	0.589059	0.651299	0.4776
-55.786	132.3	20.3523	0.222626	1.938761	0.134251	0.603032	0.666748	0.4658
-56.052	132.3	20.30021	0.232852	1.908811	0.138248	0.593717	0.656448	0.4453
-56.338	132.3	20.26548	0.248972	1.833939	0.142021	0.570428	0.630699	0.4165
-56.634	132.3	20.21339	0.267646	1.759066	0.14644	0.54714	0.60495	0.3874
-56.920	132.3	20.17866	0.283205	1.699168	0.149676	0.528509	0.584351	0.3661
-57.216	132.3	20.12657	0.288783	1.714143	0.15397	0.533167	0.589501	0.3591
-57.522	132.3	20.1092	0.29894	1.699168	0.157993	0.528509	0.584351	0.3469
-57.818	132.3	20.07447	0.317189	1.646757	0.162467	0.512207	0.566327	0.3269
-58.114	132.3	20.05711	0.337069	1.594347	0.167154	0.495906	0.548303	0.3076
-58.420	132.3	20.02238	0.353099	1.564398	0.171814	0.48659	0.538003	0.2937
-58.707	132.3	20.00502	0.36727	1.519474	0.173578	0.472617	0.522554	0.2823
-59.141	132.3	19.97029	0.368965	1.519474	0.174379	0.472617	0.522554	0.2810
-59.457	132.3	19.95292	0.381081	1.467063	0.173893	0.456315	0.504529	0.2721
-59.773	132.3	19.9182	0.391899	1.429627	0.174266	0.444671	0.491655	0.2646
-59.931	132.3	19.88347	0.398311	1.392191	0.172479	0.433027	0.47878	0.2603
-60.247	132.3	19.84874	0.401452	1.347267	0.16823	0.419054	0.463331	0.2583
-60.563	132.3	19.81401	0.38635	1.354754	0.162801	0.421383	0.465906	0.2684
-60.879	132.3	19.79665	0.388455	1.294856	0.156451	0.402752	0.445306	0.2669
-61.037	132.3	19.76192	0.370017	1.309831	0.150749	0.40741	0.450456	0.2802
-61.353	132.3	19.72719	0.375054	1.242446	0.14494	0.38645	0.427282	0.2765
-61.669	132.3	19.6751	0.355483	1.264907	0.13986	0.393437	0.435007	0.2917
-61.827	132.3	19.64037	0.363275	1.190035	0.134466	0.370149	0.409258	0.2854
-62.143	132.3	19.58828	0.352122	1.190035	0.130337	0.370148	0.409258	0.2945
-62.459	132.3	19.53618	0.359357	1.12265	0.125483	0.349189	0.386084	0.2886
-62.617	132.3	19.50146	0.344284	1.137624	0.121824	0.353847	0.391234	0.3012
-62.933	132.3	19.46673	0.332366	1.137624	0.117607	0.353847	0.391234	0.3120
-63.250	132.3	19.432	0.33403	1.0927	0.113528	0.339874	0.375784	0.3104
-63.408	132.3	19.39727	0.319677	1.100188	0.109394	0.342202	0.378359	0.3244
-63.724	132.3	19.36254	0.326341	1.04029	0.105595	0.323572	0.35776	0.3177
-64.040	132.3	19.32781	0.313551	1.047777	0.102186	0.325901	0.360335	0.3307
-64.357	132.3	19.29309	0.313682	1.010341	0.098577	0.314256	0.347461	0.3306
-64.515	132.3	19.25836	0.301524	1.017828	0.095458	0.316585	0.350035	0.3439
-64.831	132.3	19.22363	0.30525	0.972904	0.092372	0.302612	0.334586	0.3397
-65.148	132.3	19.1889	0.287137	1.010341	0.090235	0.314256	0.347461	0.3611
-65.306	132.3	19.13681	0.296812	0.95793	0.088437	0.297955	0.329436	0.3494
-65.622	132.3	19.10208	0.279652	0.995366	0.08658	0.309599	0.342311	0.3708
-65.780	132.3	19.06735	0.300024	0.920494	0.0859	0.28631	0.316562	0.3456
-66.097	132.3	19.03262	0.295775	0.927981	0.085372	0.288639	0.319137	0.3506
-66.413	132.3	19.01526	0.320615	0.860596	0.085822	0.26768	0.295962	0.3234
-66.572	132.3	18.98053	0.311543	0.87557	0.084845	0.272337	0.301112	0.3328

-66.888	132.3	18.9458	0.318611	0.838134	0.08306	0.260693	0.288238	0.3255
-67.205	132.3	18.91107	0.304016	0.853108	0.080671	0.265351	0.293388	0.3411
-67.363	132.3	18.87634	0.301022	0.823159	0.077072	0.256035	0.283088	0.3445
-67.680	132.3	18.84162	0.288987	0.823159	0.073991	0.256035	0.283088	0.3588
-67.996	132.3	18.80689	0.287196	0.79321	0.070857	0.24672	0.272788	0.3611
-68.155	132.3	18.78952	0.284554	0.770749	0.068217	0.239734	0.265064	0.3644
-68.471	132.3	18.7548	0.290129	0.733312	0.066175	0.228089	0.252189	0.3574
-68.788	132.3	18.73743	0.300971	0.688389	0.064443	0.214116	0.23674	0.3445
-68.946	132.3	18.7027	0.286373	0.718338	0.063985	0.223432	0.247039	0.3621
-69.263	132.3	18.68534	0.287945	0.695876	0.062324	0.216445	0.239315	0.3601
-69.580	132.3	18.66797	0.259699	0.755774	0.061049	0.235076	0.259914	0.3993
-69.738	132.3	18.63325	0.263243	0.725825	0.05943	0.225761	0.249614	0.3939
-70.055	132.3	18.59852	0.243226	0.770749	0.058309	0.239734	0.265064	0.4263
-70.372	132.3	18.56379	0.258189	0.71085	0.057086	0.221103	0.244464	0.4016
-70.530	132.3	18.52906	0.238825	0.748287	0.055586	0.232747	0.257339	0.4342
-70.847	132.3	18.5117	0.254686	0.688389	0.054532	0.214116	0.23674	0.4071
-71.164	132.3	18.49433	0.248694	0.703363	0.054408	0.218774	0.24189	0.4170
-71.322	132.3	18.4596	0.264946	0.650952	0.053644	0.202472	0.223865	0.3914
-71.639	132.3	18.44224	0.256848	0.665927	0.053201	0.20713	0.229015	0.4037
-71.956	132.3	18.40751	0.258479	0.643465	0.051733	0.200143	0.22129	0.4012
-72.273	132.3	18.35542	0.246702	0.650952	0.04995	0.202472	0.223865	0.4203
-72.432	132.3	18.32069	0.250794	0.621003	0.048443	0.193157	0.213566	0.4135
-72.749	132.3	18.28596	0.258413	0.57608	0.046303	0.179184	0.198116	0.4013
-73.066	132.3	18.23387	0.245563	0.598542	0.045717	0.18617	0.205841	0.4223
-73.225	132.3	18.19914	0.257219	0.553618	0.044292	0.172197	0.190392	0.4031
-73.542	132.3	18.18178	0.239732	0.583567	0.043514	0.181513	0.200691	0.4325
-73.859	132.3	18.14705	0.253396	0.538644	0.042454	0.16754	0.185242	0.4092
-74.017	132.3	18.12968	0.229643	0.583567	0.041683	0.181513	0.200691	0.4515
-74.334	132.3	18.11232	0.250831	0.516182	0.040272	0.160553	0.177517	0.4134
-74.652	132.3	18.09496	0.236471	0.531156	0.039068	0.165211	0.182667	0.4385
-74.810	132.3	18.07759	0.225105	0.546131	0.038238	0.169869	0.187817	0.4606
-75.127	132.3	18.06023	0.22763	0.523669	0.037077	0.162882	0.180092	0.4555
-75.445	132.3	18.04286	0.216863	0.538644	0.036333	0.16754	0.185242	0.4782
-75.762	132.3	18.04286	0.235544	0.478746	0.035075	0.148909	0.164643	0.4402
-75.921	132.3	18.0255	0.229051	0.486233	0.034641	0.151238	0.167217	0.4527
-76.238	132.3	18.00813	0.225862	0.478746	0.033633	0.148909	0.164643	0.4591
-76.555	132.3	18.00813	0.221763	0.478746	0.033023	0.148909	0.164643	0.4676
-76.714	132.3	17.99077	0.193974	0.523669	0.031595	0.162882	0.180092	0.5346
-77.031	132.3	17.97341	0.208759	0.478746	0.031086	0.148909	0.164643	0.4967
-77.349	132.3	17.95604	0.189085	0.501207	0.029477	0.155896	0.172367	0.5484
-77.508	132.3	17.93868	0.206933	0.441309	0.028405	0.137265	0.151768	0.5011
-77.825	132.3	17.90395	0.200818	0.441309	0.027565	0.137265	0.151768	0.5164
-78.143	132.3	17.88659	0.19018	0.456284	0.026991	0.141922	0.156918	0.5452
-78.460	132.3	17.86922	0.192456	0.441309	0.026417	0.137265	0.151768	0.5388
-78.619	132.3	17.85186	0.18063	0.463771	0.026056	0.144251	0.159493	0.5741
-78.936	132.3	17.83449	0.204393	0.403873	0.025676	0.125621	0.138894	0.5073
-79.254	132.3	17.79976	0.191575	0.418847	0.024958	0.130278	0.144043	0.5413
-79.413	132.3	17.7824	0.210827	0.381411	0.025011	0.118634	0.131169	0.4918
-79.730	132.3	17.74767	0.195639	0.396386	0.024121	0.123292	0.136319	0.5300
-80.048	132.3	17.71294	0.182211	0.41136	0.023314	0.127949	0.141469	0.5691
-80.207	132.3	17.69558	0.197795	0.373924	0.023005	0.116305	0.128594	0.5242
-80.525	132.3	17.66085	0.181809	0.396386	0.022416	0.123292	0.136319	0.5703
-80.842	132.3	17.64349	0.208284	0.336488	0.021799	0.104661	0.11572	0.4978
-81.160	132.3	17.62612	0.193412	0.358949	0.021594	0.111648	0.123444	0.5361
-81.319	132.3	17.59139	0.179108	0.373924	0.020831	0.116305	0.128594	0.5789
-81.637	132.3	17.57403	0.214405	0.314026	0.020942	0.097675	0.107995	0.4836
-81.796	132.3	17.5393	0.189488	0.343975	0.020273	0.10699	0.118294	0.5472
-82.113	132.3	17.52194	0.211396	0.306539	0.020156	0.095346	0.10542	0.4905
-82.431	132.3	17.50457	0.18763	0.336488	0.019638	0.104661	0.11572	0.5527
-82.590	132.3	17.48721	0.161707	0.358949	0.018054	0.111648	0.123444	0.6412
-82.908	132.3	17.45248	0.17284	0.321513	0.017285	0.100003	0.11057	0.5999
-83.226	132.3	17.43512	0.179361	0.291564	0.016266	0.090688	0.10027	0.5781
-83.385	132.3	17.40039	0.187348	0.329	0.019172	0.102332	0.113145	0.5535
-83.703	132.3	17.38302	0.219015	0.269102	0.018332	0.083702	0.092545	0.4735
-83.862	132.3	17.36566	0.183313	0.321513	0.018332	0.100003	0.11057	0.5657
-84.180	132.3	17.3483	0.202717	0.284077	0.017912	0.088359	0.097695	0.5115
-84.498	132.3	17.31357	0.179085	0.314026	0.017492	0.097675	0.107995	0.5790
-84.657	132.3	17.2962	0.209801	0.261615	0.017072	0.081373	0.089971	0.4942
-84.975	132.3	17.26147	0.18362	0.291564	0.016652	0.090688	0.10027	0.5647
-85.293	132.3	17.22675	0.112527	0.463771	0.016232	0.144251	0.159493	0.9215
-85.293	132.3	17.19202	0.141627	0.358949	0.015812	0.111648	0.123444	0.7322

-85.293	132.3	17.15729	0.120306	0.388898	0.014553	0.120963	0.133744	0.8619
-85.293	132.3	17.13993	0.136018	0.343975	0.014553	0.10699	0.118294	0.7624
-85.293	132.3	17.1052	0.126582	0.358949	0.014133	0.111648	0.123444	0.8192
-85.452	132.3	17.08783	0.115588	0.381411	0.013713	0.118634	0.131169	0.8971
-85.452	132.3	17.0531	0.116627	0.366437	0.013293	0.113976	0.126019	0.8891
-85.452	132.3	17.03574	0.102474	0.403873	0.012873	0.125621	0.138894	1.0119

7.2.2 Janeiro

Prof (m)	Dist (Km)	Temp, C	PAR (uE/(m2.sec)	Chl-a (mg/m3)	Prod (mgC/m3/h	Efic (mgC/mg Clor-a/h)	% LUZ	ClorS:ClorF
-4	0	28.56557	573.0143	1.572493	280.266	178.2304	27.10851	0.6
-4	0	28.53084	521.2623	1.482395	240.3459	162.1335	24.66019	0.6
-4	0	28.49611	436.9259	1.50203	204.1281	135.9015	20.67036	0.6
-5	0	28.46138	390.9242	1.412571	171.7588	121.5931	18.49408	0.6
-5	0	28.40929	380.5019	1.124017	133.0289	118.3513	18.00102	0.8
-5	0	28.3572	370.5589	0.889997	102.5798	115.2586	17.53063	1.0
-5	0	28.28774	384.8146	0.684854	81.97209	119.6927	18.20504	1.3
-5	0	28.23565	413.4459	0.53042	68.21112	128.5982	19.55955	1.7
-5	0	28.16619	429.0193	0.440956	58.84212	133.4422	20.29631	2.0
-5	0	28.07937	415.2428	0.411664	53.16931	129.1571	19.64456	2.2
-6	0	27.97519	433.2122	0.366348	49.36399	134.7463	20.49467	2.4
-6	0	27.88836	457.8902	0.329945	46.99149	142.4222	21.66215	2.7
-6	0	27.80154	431.7747	0.334982	44.98783	134.2993	20.42666	2.7
-6	0	27.69736	410.2114	0.329962	42.1006	127.5921	19.40653	2.7
-6	0	27.52372	396.914	0.322602	39.82719	123.4562	18.77745	2.8
-7	0	27.29798	375.5903	0.326291	38.11846	116.8236	17.76865	2.7
-7	0	27.02015	348.157	0.340548	36.87824	108.2907	16.47082	2.6
-7	0	26.74233	297.603	0.387409	35.86105	92.56646	14.07918	2.3
-7	0	26.48186	257.4713	0.431222	34.53392	80.08389	12.18061	2.1
-8	0	26.23877	239.0227	0.448984	33.38004	74.34565	11.30783	2.0
-8	0	26.0304	230.3974	0.440877	31.59452	71.66282	10.89978	2.0
-8	0	25.7873	215.5427	0.42898	28.75986	67.04239	10.19703	2.1
-8	0	25.52683	219.2564	0.369174	25.17677	68.1975	10.37272	2.4
-9	0	25.3011	239.0227	0.290054	21.56421	74.34563	11.30783	3.1
-9	0	25.058	242.8562	0.255655	19.31168	75.538	11.48919	3.5
-9	0	24.84963	257.2318	0.227134	18.17286	80.00936	12.16928	3.9
-9	0	24.67599	274.9616	0.208031	17.79162	85.52404	13.00805	4.3
-9	0	24.50235	278.795	0.207764	18.01655	86.71643	13.1894	4.3
-9	0	24.36343	278.4357	0.214209	18.5515	86.60466	13.17241	4.2
-9	0	24.24188	275.2012	0.222984	19.0871	85.59857	13.01939	4.0
-9	0	24.1377	268.4926	0.230723	19.26814	83.51196	12.70201	3.9
-10	0	24.01615	255.1952	0.243518	19.32945	79.37591	12.07293	3.7
-10	0	23.8946	239.1425	0.257578	19.15938	74.38289	11.3135	3.5
-10	0	23.77305	221.6523	0.272674	18.79889	68.94274	10.48606	3.3
-10	0	23.66886	203.6829	0.290478	18.4028	63.35354	9.635955	3.1
-11	0	23.58204	184.1561	0.313568	17.96115	57.27993	8.712169	2.8
-11	0	23.51259	169.6608	0.332095	17.52507	52.7713	8.026417	2.7
-11	0	23.44313	163.072	0.338327	17.16057	50.72192	7.71471	2.6
-11	0	23.37367	162.3532	0.333239	16.82801	50.49834	7.680704	2.7
-12	0	23.28685	165.2283	0.326026	16.75532	51.39262	7.816721	2.7
-12	0	23.20003	186.552	0.294185	17.07012	58.02515	8.825516	3.0
-12	0	23.09584	191.4637	0.295932	17.62361	59.55287	9.057881	3.0
-12	0	22.99166	192.7814	0.307599	18.44447	59.96275	9.12022	2.9
-13	0	22.90484	192.4221	0.325843	19.50201	59.85096	9.103222	2.7
-13	0	22.81802	188.8282	0.353024	20.73422	58.73311	8.9332	2.5
-13	0	22.7312	183.7967	0.385896	22.06096	57.16814	8.695166	2.3
-13	0	22.62701	177.2079	0.421974	23.25869	55.11876	8.383459	2.1
-14	0	22.52283	164.9887	0.469541	24.09593	51.31809	7.805386	1.9
-14	0	22.41864	153.6081	0.514901	24.60109	47.77827	7.266986	1.7
-14	0	22.31446	142.7067	0.561348	24.91682	44.38748	6.751256	1.6
-14	0	22.21027	135.2793	0.597564	25.14386	42.07727	6.399876	1.5
-15	0	22.10609	128.4509	0.638014	25.49081	39.95338	6.076834	1.4
-15	0	22.0019	120.6642	0.686949	25.78215	37.53139	5.708456	1.3
-15	0	21.88035	112.3983	0.737788	25.79332	34.96036	5.317407	1.2
-16	0	21.7588	103.2938	0.792126	25.44981	32.12849	4.886686	1.1
-16	0	21.65462	92.87149	0.852046	24.61285	28.88675	4.393621	1.0
-16	0	21.56779	86.16291	0.867961	23.26144	26.80011	4.076247	1.0
-16	0	21.46361	79.81371	0.874405	21.70734	24.82526	3.775876	1.0
-17	0	21.37679	70.46962	0.912459	20.00006	21.91887	3.33382	1.0

-17	0	21.2726	63.28185	0.912362	17.9582	19.68319	2.993776	1.0
-17	0	21.15105	57.65144	0.913148	16.37449	17.93191	2.727409	1.0
-17	0	21.04687	51.30224	0.926736	14.78798	15.95705	2.427038	1.0
-17	0	20.94268	48.30734	0.886439	13.3192	15.02552	2.285353	1.0
-17	0	20.85586	46.27081	0.835365	12.02264	14.39207	2.189008	1.1
-18	0	20.76904	42.07794	0.824677	10.79332	13.08793	1.990649	1.1
-18	0	20.68222	36.68712	0.835888	9.538452	11.41116	1.735617	1.1
-18	0	20.61276	33.21303	0.807021	8.336995	10.33058	1.571262	1.1
-18	0	20.56067	31.41609	0.751494	7.343348	9.771661	1.486252	1.2
-18	0	20.50858	29.02017	0.725717	6.550636	9.026435	1.372904	1.2
-18	0	20.43912	27.22322	0.697688	5.907686	8.467515	1.287893	1.3
-19	0	20.38703	26.74404	0.652482	5.427652	8.318469	1.265223	1.4
-19	0	20.3523	27.70241	0.594821	5.125308	8.616556	1.310563	1.5
-18	0	20.30021	28.66078	0.553178	4.931388	8.91465	1.355902	1.6
-18	0	20.26548	28.78057	0.536515	4.802838	8.951914	1.361569	1.7
-3	3.23	28.37456	126.654	1.282647	50.52918	39.39446	6.074606	0.3
-3	3.23	28.39193	145.2224	0.96157	43.43406	45.16996	6.965187	0.4
-3	3.23	28.3572	164.5096	0.756394	38.70398	51.16906	7.890244	0.5
-3	3.23	28.37456	182.2394	0.62591	35.47891	56.68375	8.740605	0.7
-4	3.23	28.37456	195.8961	0.539932	32.89886	60.93155	9.39561	0.8
-4	3.23	28.3572	197.6931	0.489569	30.10381	61.49047	9.481798	0.8
-4	3.23	28.33983	205.4798	0.430648	27.52376	63.91245	9.855266	1.0
-5	3.23	28.23565	220.6939	0.379035	26.01872	68.64463	10.58497	1.1
-5	3.23	28.07937	228.0015	0.362339	25.69622	70.91758	10.93546	1.1
-5	3.23	27.95782	203.9225	0.410209	26.01872	63.42805	9.780574	1.0
-5	3.23	27.78418	176.609	0.512789	28.16876	54.93245	8.470558	0.8
-6	3.23	27.61054	198.4118	0.487795	30.10381	61.71403	9.516269	0.8
-6	3.23	27.48899	205.1204	0.461732	29.45879	63.80066	9.838028	0.9
-6	3.23	27.33271	204.8808	0.426846	27.20125	63.72614	9.826536	1.0
-6	3.23	27.1938	226.2046	0.345355	24.29869	70.35867	10.84927	1.2
-7	3.23	26.98543	234.4705	0.300751	21.93364	72.9297	11.24572	1.4
-7	3.23	26.79442	236.0278	0.273323	20.0658	73.41411	11.32042	1.5
-7	3.23	26.56869	253.7577	0.238563	18.82952	78.9288	12.17078	1.7
-8	3.23	26.37768	259.6277	0.223269	18.02997	80.7546	12.45232	1.8
-8	3.23	26.16931	279.7534	0.201956	17.57309	87.01449	13.41759	2.0
-8	3.23	25.96094	306.3481	0.180052	17.15652	95.28653	14.69313	2.3
-8	3.23	25.7352	297.9624	0.154052	14.27727	92.67826	14.29094	2.7
-9	3.23	25.50947	278.795	0.164421	14.25797	86.71639	13.37162	2.5
-9	3.23	25.26637	270.8885	0.167918	14.14828	84.25713	12.99241	2.4
-9	3.23	25.058	259.7475	0.174004	14.05808	80.79184	12.45806	2.4
-10	3.23	24.83226	245.9709	0.183773	14.05985	76.5068	11.79731	2.2
-10	3.23	24.62389	240.4603	0.187258	14.00553	74.79279	11.53301	2.2
-10	3.23	24.45025	224.5274	0.196486	13.722	69.837	10.76883	2.1
-11	3.23	24.27661	204.6413	0.209854	13.35752	63.6516	9.815049	2.0
-11	3.23	24.1377	203.0839	0.205654	12.99059	63.16722	9.740353	2.0
-11	3.23	24.01615	210.3915	0.192291	12.58355	65.44016	10.09084	2.1
-11	3.23	23.87723	214.4645	0.183089	12.21332	66.70704	10.28619	2.2
-11	3.23	23.73832	220.9335	0.174868	12.01676	68.71917	10.59646	2.3
-12	3.23	23.61677	218.6574	0.177196	12.05129	68.0112	10.48729	2.3
-12	3.23	23.51259	215.6625	0.183962	12.34008	67.07964	10.34365	2.2
-12	3.23	23.44313	209.7925	0.197265	12.87231	65.25388	10.06211	2.1
-13	3.23	23.35631	199.1306	0.218546	13.53619	61.93759	9.550744	1.9
-13	3.23	23.28685	187.75	0.245558	14.34006	58.39777	9.004905	1.7
-13	3.23	23.20003	181.6404	0.269081	15.20236	56.49745	8.711875	1.5
-13	3.23	23.14794	176.609	0.290701	15.96893	54.93246	8.470558	1.4
-14	3.23	23.07848	177.2079	0.304131	16.76332	55.11876	8.499283	1.3
-14	3.23	22.99166	184.2759	0.307074	17.6006	57.31718	8.83828	1.3
-14	3.23	22.90484	185.4739	0.313936	18.11091	57.68979	8.895738	1.3
-15	3.23	22.76592	177.3277	0.335165	18.48634	55.15603	8.505029	1.2
-15	3.23	22.64438	167.5045	0.360144	18.76373	52.10059	8.033886	1.1
-15	3.23	22.4881	157.9208	0.385762	18.94848	49.11968	7.574231	1.1
-15	3.23	22.31446	149.535	0.4125	19.18593	46.51139	7.172029	1.0
-16	3.23	22.15818	141.9879	0.441833	19.51307	44.16392	6.810054	0.9
-16	3.23	22.01926	135.5189	0.473189	19.94576	42.1518	6.499786	0.9
-16	3.23	21.88035	129.6489	0.509298	20.53795	40.32599	6.218248	0.8
-17	3.23	21.7588	124.3779	0.548234	21.20926	38.6865	5.965439	0.7
-17	3.23	21.63725	118.6277	0.589216	21.74088	36.89795	5.689647	0.7
-17	3.23	21.53307	110.4815	0.641121	22.0316	34.36417	5.298937	0.6
-18	3.23	21.41152	100.6582	0.705295	22.0819	31.30874	4.82779	0.6
-18	3.23	21.30733	91.43394	0.768644	21.85993	28.43961	4.385374	0.5
-18	3.23	21.20315	81.25127	0.848961	21.45528	25.2724	3.896991	0.5

-19	3.23	21.11633	72.38636	0.933397	21.01548	22.51506	3.47181	0.4
-19	3.23	21.01214	64.959	1.02137	20.63662	20.20484	3.115577	0.4
-19	3.23	20.92532	57.53164	1.13592	20.32689	17.89465	2.759345	0.4
-19	3.23	20.8385	51.06265	1.267849	20.13665	15.88253	2.449078	0.3
-20	3.23	20.75168	45.31244	1.407603	19.83872	14.09398	2.173285	0.3
-20	3.23	20.66486	40.87998	1.511366	19.21749	12.71531	1.960694	0.3
-20	3.23	20.5954	37.76528	1.546056	18.16077	11.74651	1.811306	0.3
-20	3.23	20.50858	35.24957	1.531961	16.79646	10.96403	1.690647	0.3
-21	3.23	20.43912	32.73384	1.498847	15.26056	10.18154	1.569987	0.3
-21	3.23	20.36967	30.09833	1.461635	13.68351	9.361783	1.443582	0.3
-21	3.23	20.31757	27.82221	1.384392	11.98028	8.653818	1.334415	0.3
-21	3.23	20.24812	25.90547	1.311373	10.56657	8.057638	1.242484	0.3
-22	3.23	20.17866	24.58771	1.203097	9.200995	7.647758	1.179281	0.3
-22	3.23	20.12657	21.92225	1.126286	7.679802	6.818696	1.05144	0.4
-22	3.23	20.05711	19.40653	1.088074	6.567839	6.036206	0.93078	0.4
-23	3.23	20.00502	16.44906	1.113243	5.695704	5.116317	0.788933	0.4
-23	3.23	19.95292	13.76863	1.167504	4.999942	4.282591	0.660374	0.4
-23	3.23	19.9182	11.40265	1.251432	4.438428	3.54668	0.546896	0.3
-24	3.23	19.88347	9.426017	1.362339	3.9942	2.93187	0.452093	0.3
-24	3.23	19.8661	7.980977	1.441021	3.577195	2.482403	0.382785	0.3
-24	3.23	19.83138	6.371216	1.613853	3.198177	1.981703	0.305578	0.3
-25	3.23	19.81401	5.472745	1.659261	2.824465	1.702243	0.262485	0.2
-25	3.23	19.79665	4.222373	1.853004	2.4336	1.313327	0.202514	0.2
-25	3.23	19.74455	3.556008	1.884924	2.08484	1.106061	0.170554	0.2
-25	3.23	19.74455	2.724922	2.06945	1.753983	0.84756	0.130693	0.2
-26	3.23	19.72719	2.215789	2.133766	1.470589	0.689199	0.106274	0.2
-1	6.68	27.83627	112.5181	9.537947	333.8054	34.99762	5.628099	0.1
-1	6.68	27.83627	121.1434	7.332859	276.3053	37.68043	6.059532	0.2
-1	6.68	27.83627	123.4195	7.073844	271.5536	38.3884	6.173382	0.2
-1	6.68	27.83627	103.4135	9.926225	319.2845	32.16575	5.172692	0.1
-1	6.68	27.83627	90.83495	13.34404	377.0131	28.25329	4.543519	0.1
-2	6.68	27.83627	83.04821	14.80328	382.3882	25.83132	4.15403	0.1
-2	6.68	27.83627	83.76698	13.66127	355.9427	26.05488	4.189983	0.1
-2	6.68	27.83627	87.60046	11.20119	305.2017	27.24726	4.381731	0.1
-2	6.68	27.83627	93.82986	8.203246	239.4104	29.18484	4.693323	0.2
-3	6.68	27.83627	96.82476	6.121897	184.3693	30.11638	4.843126	0.2
-3	6.68	27.83627	104.9709	4.326504	141.261	32.65014	5.250592	0.3
-3	6.68	27.83627	114.5546	3.032265	108.0428	35.63106	5.729964	0.5
-4	6.68	27.81891	123.1799	2.1746	83.31733	38.31387	6.161397	0.6
-4	6.68	27.83627	125.3362	1.682191	65.5795	38.98457	6.269254	0.8
-4	6.68	27.83627	123.4195	1.397473	53.64675	38.3884	6.173382	1.0
-5	6.68	27.85364	123.5393	1.186293	45.58412	38.42569	6.179374	1.2
-5	6.68	27.83627	124.3779	1.047691	40.53151	38.68651	6.22132	1.3
-5	6.68	27.83627	123.4195	0.963414	36.98394	38.3884	6.173382	1.5
-5	6.68	27.83627	120.9038	0.903419	33.97388	37.60591	6.047548	1.5
-6	6.68	27.80154	119.8256	0.85386	31.82384	37.27056	5.993617	1.6
-6	6.68	27.81891	128.5707	0.763524	30.53381	39.99064	6.431042	1.8
-6	6.68	27.78418	142.9463	0.679486	30.21131	44.46201	7.150103	2.1
-6	6.68	27.74945	152.1706	0.622398	29.45879	47.33113	7.611497	2.2
-7	6.68	27.73209	160.0771	0.572224	28.49127	49.79038	8.006977	2.4
-7	6.68	27.69736	172.5359	0.524895	28.16876	53.66557	8.63016	2.7
-7	6.68	27.6279	184.7551	0.488309	28.06126	57.46623	9.241358	2.9
-7	6.68	27.59317	181.281	0.482414	27.20125	56.38565	9.067585	2.9
-8	6.68	27.54108	177.2079	0.456446	25.15871	55.11876	8.863851	3.1
-8	6.68	27.48899	174.5724	0.41978	22.79366	54.29901	8.732024	3.3
-8	6.68	27.4369	188.2292	0.334468	19.58204	58.54682	9.415131	4.2
-9	6.68	27.31535	197.0941	0.27142	16.63917	61.30415	9.858548	5.1
-9	6.68	27.21116	200.8078	0.190263	11.88368	62.45924	10.04431	7.3
-9	6.68	27.08961	203.8027	0.17056	10.81191	63.39079	10.19411	8.2
-9	6.68	26.96806	202.3651	0.159548	10.0425	62.94364	10.1222	8.8
-10	6.68	26.86388	191.1043	0.158537	9.423635	59.44108	9.558942	8.8
-10	6.68	26.74233	180.8018	0.156832	8.819673	56.23662	9.043616	8.9
-10	6.68	26.65551	176.2496	0.152962	8.385492	54.82064	8.815917	9.1
-11	6.68	26.53396	171.9369	0.152131	8.13583	53.47925	8.600198	9.2
-11	6.68	26.41241	170.6192	0.150912	8.0088	53.06938	8.534287	9.3
-11	6.68	26.27349	168.5826	0.151298	7.933455	52.43596	8.432417	9.2
-11	6.68	26.11722	163.3116	0.15521	7.884117	50.79645	8.168765	9.0
-12	6.68	25.92621	156.9624	0.159104	7.767693	48.82157	7.851181	8.8
-12	6.68	25.75257	151.931	0.161277	7.621396	47.25662	7.599513	8.7
-12	6.68	25.59629	151.4518	0.159778	7.526762	47.10756	7.575543	8.7
-13	6.68	25.42265	153.6081	0.158093	7.553408	47.77826	7.6834	8.8

-13	6.68	25.23164	159.3583	0.154224	7.644396	49.5668	7.971023	9.1
-13	6.68	25.09273	157.202	0.15771	7.711412	48.89609	7.863166	8.9
-13	6.68	24.95381	149.4153	0.168115	7.812992	46.47412	7.473679	8.3
-14	6.68	24.79754	142.4671	0.177796	7.878682	44.31294	7.126133	7.9
-14	6.68	24.64126	136.3575	0.185697	7.8759	42.41264	6.820534	7.5
-14	6.68	24.46762	132.0448	0.1918	7.877442	41.07121	6.604815	7.3
-15	6.68	24.29397	129.6489	0.196594	7.927826	40.32598	6.484973	7.1
-15	6.68	24.10297	127.852	0.20224	8.042501	39.76707	6.395093	6.9
-15	6.68	23.92933	124.857	0.210912	8.190863	38.83552	6.245285	6.6
-15	6.68	23.72096	120.6642	0.222679	8.35745	37.5314	6.035563	6.3
-16	6.68	23.54731	117.9089	0.231276	8.481897	36.67438	5.897744	6.0
-16	6.68	23.37367	115.2734	0.240227	8.613238	35.85462	5.765918	5.8
-16	6.68	23.18267	111.5597	0.253568	8.798687	34.69951	5.580161	5.5
-16	6.68	22.99166	108.6846	0.266742	9.017287	33.80525	5.436349	5.2
-16	6.68	22.81802	107.4866	0.277574	9.280025	33.43264	5.376426	5.0
-17	6.68	22.66174	108.9242	0.283105	9.591532	33.87977	5.448334	4.9
-17	6.68	22.4881	110.4815	0.290883	9.995953	34.36417	5.526229	4.8
-17	6.68	22.29709	110.7211	0.302118	10.40454	34.43868	5.538214	4.6
-17	6.68	22.15818	110.0023	0.316421	10.82637	34.21512	5.50226	4.4
-17	6.68	22.01926	106.2887	0.339304	11.21741	33.06002	5.316508	4.1
-18	6.68	21.88035	101.0176	0.367628	11.55107	31.42052	5.05285	3.8
-18	6.68	21.72407	94.54864	0.401573	11.80962	29.40841	4.729276	3.5
-18	6.68	21.56779	89.27761	0.431066	11.97023	27.76891	4.465621	3.2
-18	6.68	21.42888	84.60556	0.45775	12.04602	26.31572	4.231928	3.1
-19	6.68	21.2726	80.53249	0.480231	12.02923	25.04883	4.028195	2.9
-19	6.68	21.13369	78.01678	0.492777	11.9579	24.26634	3.90236	2.8
-19	6.68	21.01214	75.62085	0.503014	11.83143	23.52111	3.782517	2.8
-19	6.68	20.90796	72.50615	0.517604	11.67318	22.55232	3.626721	2.7
-20	6.68	20.80377	68.19349	0.53832	11.41826	21.2109	3.411004	2.6
-20	6.68	20.71695	62.92246	0.565359	11.06487	19.57141	3.14735	2.5
-20	6.68	20.5954	58.60981	0.584456	10.65464	18.23	2.931633	2.4
-20	6.68	20.50858	54.89613	0.598679	10.22238	17.07489	2.745877	2.3
-20	6.68	20.42176	52.7398	0.596979	9.79296	16.40419	2.638018	2.3
-21	6.68	20.3523	50.22408	0.600682	9.383666	15.6217	2.512183	2.3
-21	6.68	20.26548	47.70836	0.60216	8.935583	14.83921	2.386348	2.3
-21	6.68	20.17866	44.83325	0.605097	8.43804	13.94493	2.242537	2.3
-21	6.68	20.09184	42.43733	0.606804	8.009643	13.19971	2.122694	2.3
-22	6.68	20.02238	39.68202	0.61222	7.55644	12.3427	1.984875	2.3
-22	6.68	19.95292	37.0465	0.613932	7.074307	11.52294	1.853047	2.3
-22	6.68	19.88347	34.29119	0.618342	6.595193	10.66593	1.715228	2.3
-22	6.68	19.81401	31.29629	0.625752	6.091321	9.734401	1.565425	2.2
-23	6.68	19.74455	28.54098	0.631021	5.601817	8.877387	1.427606	2.2
-23	6.68	19.6751	26.26486	0.625588	5.110694	8.169424	1.313755	2.2
-23	6.68	19.623	23.7117	0.617703	4.555734	7.375285	1.186047	2.3
-24	6.68	19.57091	21.60778	0.608744	4.091298	6.720885	1.08081	2.3
-24	6.68	19.51882	19.96807	0.590979	3.670495	6.21087	0.998793	2.4
-24	6.68	19.46673	18.49308	0.57212	3.290887	5.752089	0.925015	2.4
-25	6.68	19.432	17.13789	0.550124	2.932472	5.33057	0.857229	2.5
-25	6.68	19.37991	15.94742	0.527876	2.618418	4.960286	0.797682	2.6
-25	6.68	19.34518	14.76443	0.509534	2.339947	4.592328	0.738509	2.7
-26	6.68	19.31045	13.61888	0.49394	2.092337	4.236017	0.68121	2.8
-26	6.68	19.27572	12.42841	0.48704	1.882764	3.865732	0.621663	2.9
-26	6.68	19.24099	11.35024	0.47136	1.664079	3.530379	0.567733	3.0
-27	6.68	19.20626	10.38439	0.461726	1.491356	3.229959	0.519422	3.0
-27	6.68	19.1889	9.710533	0.444298	1.341941	3.020364	0.485716	3.1
-27	6.68	19.17154	9.029192	0.431735	1.2125	2.80844	0.451636	3.2
-27	6.68	19.13681	8.183132	0.431851	1.099183	2.545281	0.409316	3.2
-28	6.68	19.11944	7.756359	0.41366	0.99797	2.412538	0.387969	3.4
-28	6.68	19.10208	7.194815	0.406115	0.908834	2.237875	0.359881	3.4
-28	6.68	19.08471	6.678194	0.397837	0.826382	2.077186	0.33404	3.5
-28	6.68	19.06735	6.109162	0.395066	0.750702	1.900194	0.305577	3.5
-29	6.68	19.06735	6.026803	0.365014	0.684246	1.874576	0.301458	3.8
-29	6.68	19.04999	5.659927	0.355973	0.626678	1.760464	0.283107	3.9
-29	6.68	19.03262	5.210691	0.353668	0.573201	1.620734	0.260636	4.0
-29	6.68	19.03262	4.783918	0.350789	0.52197	1.487989	0.239289	4.0
-30	6.68	19.03262	4.461966	0.338619	0.469952	1.38785	0.223185	4.1
-30	6.68	19.01526	4.154988	0.325339	0.420458	1.292367	0.20783	4.3
-30	6.68	19.01526	3.855498	0.30747	0.368723	1.199214	0.19285	4.5
-30	6.68	18.99789	3.615906	0.285212	0.320775	1.124691	0.180866	4.9
-3	9.52	27.76682	56.45348	0.569624	10.0022	17.55929	3.766331	0.4
-3	9.52	27.76682	50.94286	0.506059	8.018641	15.84527	3.398686	0.5

-3	9.52	27.76682	50.94286	0.408951	6.47994	15.84527	3.398686	0.6
-3	9.52	27.78418	53.81796	0.32683	5.470978	16.73953	3.5905	0.7
-3	9.52	27.78418	56.57327	0.34192	6.016615	17.59656	3.774323	0.7
-3	9.52	27.78418	58.60981	0.31456	5.73442	18.22999	3.910192	0.8
-3	9.52	27.78418	63.16206	0.281971	5.539575	19.64593	4.213898	0.8
-3	9.52	27.78418	67.23512	0.259749	5.432072	20.91281	4.485635	0.9
-4	9.52	27.78418	67.9539	0.253504	5.358165	21.13639	4.533589	0.9
-4	9.52	27.78418	67.23512	0.252038	5.270819	20.91282	4.485635	1.0
-4	9.52	27.78418	66.75594	0.250287	5.196912	20.76378	4.453666	1.0
-5	9.52	27.78418	66.51635	0.247292	5.116284	20.68925	4.437682	1.0
-5	9.52	27.78418	66.39655	0.243834	5.035656	20.65198	4.429689	1.0
-5	9.52	27.78418	66.51635	0.239498	4.955031	20.68925	4.437682	1.0
-5	9.52	27.76682	66.51635	0.235276	4.867685	20.68925	4.437682	1.0
-6	9.52	27.76682	66.87573	0.22949	4.773622	20.80104	4.461658	1.0
-6	9.52	27.78418	66.87573	0.224968	4.679558	20.80104	4.461658	1.1
-6	9.52	27.76682	66.87573	0.220122	4.578772	20.80103	4.461658	1.1
-6	9.52	27.74945	66.99553	0.214892	4.477991	20.83829	4.469651	1.1
-6	9.52	27.73209	68.43308	0.206906	4.40408	21.28542	4.565558	1.2
-6	9.52	27.71472	70.11023	0.200724	4.377205	21.80709	4.67745	1.2
-6	9.52	27.69736	71.30819	0.197352	4.377205	22.1797	4.757373	1.2
-6	9.52	27.69736	73.70412	0.192695	4.41752	22.92493	4.917219	1.2
-6	9.52	27.69736	74.90208	0.191344	4.457834	23.29755	4.997141	1.3
-6	9.52	27.67999	75.62085	0.190953	4.491426	23.52111	5.045095	1.3
-6	9.52	27.67999	76.10004	0.190035	4.498148	23.67017	5.077064	1.3
-6	9.52	27.66263	76.10004	0.188615	4.464552	23.67016	5.077064	1.3
-6	9.52	27.64527	76.21983	0.185485	4.397363	23.70741	5.085056	1.3
-7	9.52	27.61054	77.0584	0.179261	4.29658	23.96825	5.141002	1.3
-7	9.52	27.59317	78.61575	0.171589	4.195797	24.45264	5.244901	1.4
-7	9.52	27.55844	79.81371	0.165224	4.101732	24.82526	5.324824	1.4
-7	9.52	27.50635	81.25127	0.159111	4.021106	25.27239	5.420732	1.5
-8	9.52	27.45426	84.00658	0.151063	3.947198	26.12941	5.604554	1.6
-8	9.52	27.3848	85.08474	0.14661	3.880009	26.46476	5.676484	1.6
-8	9.52	27.29798	84.36597	0.145555	3.819539	26.24119	5.628531	1.6
-9	9.52	27.21116	83.4076	0.144897	3.75907	25.9431	5.564593	1.7
-9	9.52	27.08961	83.5274	0.143137	3.718756	25.98036	5.572585	1.7
-9	9.52	26.96806	86.16291	0.138759	3.718756	26.80011	5.748415	1.7
-9	9.52	26.86388	91.67353	0.131832	3.75907	28.51413	6.11606	1.8
-9	9.52	26.77706	98.14252	0.125343	3.826258	30.52625	6.547643	1.9
-9	9.52	26.7076	103.0542	0.122304	3.920323	32.05397	6.875329	2.0
-9	9.52	26.63814	106.8876	0.121353	4.034543	33.24634	7.131076	2.0
-9	9.52	26.56869	106.5282	0.125007	4.142045	33.13453	7.107099	1.9
-9	9.52	26.53396	103.5333	0.130709	4.209234	32.20302	6.907292	1.8
-8	9.52	26.53396	102.575	0.132773	4.23611	31.90493	6.843358	1.8
-8	9.52	26.51659	105.3303	0.130325	4.269704	32.76192	7.02718	1.8
-8	9.52	26.51659	110.1221	0.126224	4.323456	34.25239	7.346868	1.9
-9	9.52	26.53396	122.1017	0.116316	4.41752	37.97851	8.146095	2.1
-9	9.52	26.51659	132.8834	0.11143	4.605647	41.33205	8.865403	2.1
-9	9.52	26.49923	129.8885	0.119322	4.820653	40.40051	8.665596	2.0
-10	9.52	26.4645	128.9301	0.125737	5.042377	40.10245	8.601656	1.9
-10	9.52	26.44714	125.3362	0.136064	5.304411	38.98456	8.361887	1.8
-10	9.52	26.39504	126.4144	0.142252	5.593324	39.31994	8.43382	1.7
-10	9.52	26.37768	133.8418	0.137586	5.727702	41.63013	8.929343	1.7
-11	9.52	26.34295	136.2377	0.135007	5.720985	42.37537	9.089188	1.8
-11	9.52	26.27349	143.7848	0.12747	5.700828	44.72286	9.592697	1.9
-11	9.52	26.16931	147.9777	0.124296	5.720985	46.02699	9.872429	1.9
-11	9.52	26.08249	148.6965	0.124422	5.754577	46.25055	9.920385	1.9
-11	9.52	25.9783	144.1442	0.128501	5.761295	44.83459	9.616675	1.9
-11	9.52	25.87412	142.9463	0.129125	5.741137	44.462	9.536756	1.9
-12	9.52	25.75257	142.8265	0.128779	5.720985	44.42476	9.528764	1.9
-12	9.52	25.63102	138.993	0.131709	5.694106	43.23237	9.273009	1.8
-12	9.52	25.50947	138.2742	0.131925	5.673948	43.0088	9.225054	1.8
-12	9.52	25.42265	137.795	0.132384	5.673948	42.85974	9.193084	1.8
-12	9.52	25.33583	135.1595	0.113945	4.790254	42.04001	9.017255	2.1
-12	9.52	25.24901	134.5605	0.115241	4.823254	41.8537	8.977292	2.1
-12	9.52	25.14482	137.3158	0.113037	4.827902	42.71074	9.161114	2.1
-12	9.52	25.07536	141.5087	0.110784	4.876135	44.01488	9.440846	2.2
-12	9.52	25.00591	147.9777	0.108255	4.982653	46.02696	9.872429	2.2
-12	9.52	24.93645	152.1706	0.108423	5.131767	47.33115	10.15216	2.2
-12	9.52	24.86699	151.0924	0.111855	5.256714	46.99579	10.08023	2.1
-13	9.52	24.79754	147.4985	0.11693	5.364524	45.87796	9.840459	2.0
-13	9.52	24.71072	145.7016	0.12049	5.460497	45.31902	9.720578	2.0

-13	9.52	24.62389	140.9097	0.126685	5.552423	43.82857	9.400883	1.9
-13	9.52	24.53707	139.1128	0.130968	5.666916	43.26963	9.281002	1.8
-14	9.52	24.43289	138.394	0.134834	5.80408	43.04608	9.233046	1.8
-14	9.52	24.3287	137.5554	0.139241	5.957479	42.78525	9.177099	1.7
-14	9.52	24.22452	134.4407	0.146396	6.12176	41.81644	8.969299	1.6
-14	9.52	24.1377	131.0864	0.15363	6.263957	40.77311	8.745515	1.6
-15	9.52	24.05088	127.0134	0.160859	6.35494	39.50625	8.473782	1.5
-15	9.52	23.96405	126.2946	0.163053	6.405173	39.28267	8.425827	1.5
-15	9.52	23.87723	127.6124	0.163058	6.472198	39.69254	8.513745	1.5
-15	9.52	23.80778	127.0134	0.165227	6.527503	39.50625	8.473782	1.4
-15	9.52	23.72096	126.654	0.167721	6.607259	39.39446	8.449805	1.4
-15	9.52	23.6515	125.8154	0.170584	6.675566	39.13363	8.393857	1.4
-16	9.52	23.58204	123.8987	0.173906	6.701905	38.53745	8.265983	1.4
-16	9.52	23.49522	118.3881	0.181226	6.673376	36.82342	7.89834	1.3
-16	9.52	23.39104	113.117	0.187966	6.613389	35.18392	7.546675	1.3
-16	9.52	23.26949	109.8825	0.192121	6.566296	34.17787	7.330883	1.2
-17	9.52	23.14794	107.7262	0.195076	6.536436	33.50715	7.187024	1.2
-17	9.52	23.02639	107.1272	0.195947	6.529127	33.32087	7.147061	1.2
-17	9.52	22.87011	106.4084	0.197234	6.527922	33.09728	7.099106	1.2
-17	9.52	22.7312	103.8927	0.201762	6.519887	32.31479	6.93127	1.2
-17	9.52	22.59228	101.6166	0.205707	6.501734	31.60683	6.779418	1.2
-18	9.52	22.4881	99.34048	0.210018	6.489327	30.89888	6.627565	1.1
-18	9.52	22.38391	98.98109	0.210086	6.46793	30.78709	6.603588	1.1
-18	9.52	22.29709	97.78313	0.213332	6.488376	30.41447	6.523666	1.1
-18	9.52	22.17554	96.22578	0.219013	6.55506	29.93007	6.419766	1.1
-18	9.52	22.08872	93.94965	0.227064	6.635295	29.22209	6.267913	1.1
-18	9.52	22.0019	91.91312	0.235691	6.73809	28.58866	6.132044	1.0
-19	9.52	21.91508	90.11618	0.244475	6.852565	28.02973	6.01216	1.0
-19	9.52	21.81089	88.31924	0.255124	7.008466	27.47082	5.892276	0.9
-19	9.52	21.74144	86.76189	0.266888	7.202364	26.98643	5.788376	0.9
-19	9.52	21.65462	85.44413	0.279711	7.433757	26.57655	5.700461	0.9
-20	9.52	21.56779	83.4076	0.296091	7.681513	25.9431	5.564593	0.8
-20	9.52	21.46361	81.49086	0.311945	7.906844	25.34693	5.436716	0.8
-20	9.52	21.35942	79.93351	0.325026	8.080953	24.86251	5.332817	0.7
-20	9.52	21.28997	78.01678	0.338648	8.217737	24.26635	5.204941	0.7
-20	9.52	21.18578	76.45943	0.350926	8.345691	23.78195	5.101041	0.7
-20	9.52	21.0816	75.02187	0.363284	8.477149	23.3348	5.005133	0.7
-21	9.52	20.97741	73.9437	0.374178	8.605876	22.99944	4.933202	0.6
-21	9.52	20.85586	72.02697	0.388059	8.693797	22.40327	4.805327	0.6
-21	9.52	20.75168	69.63104	0.403594	8.741062	21.65804	4.64548	0.6
-21	9.52	20.63013	66.63615	0.421233	8.730698	20.72651	4.445674	0.6
-21	9.52	20.52594	64.959	0.430248	8.693093	20.20485	4.333782	0.6
-21	9.52	20.45649	64.47981	0.431373	8.651526	20.0558	4.301813	0.6
-21	9.52	20.36967	64.12042	0.431774	8.611307	19.94402	4.277836	0.6
-22	9.52	20.30021	63.04226	0.43787	8.586056	19.60867	4.205906	0.5
-22	9.52	20.23075	61.36512	0.449108	8.572124	19.08701	4.094014	0.5
-22	9.52	20.16129	59.68797	0.462302	8.582795	18.56535	3.982122	0.5
-22	9.52	20.09184	58.37021	0.470885	8.549133	18.15547	3.894207	0.5
-22	9.52	20.02238	58.25042	0.469443	8.505475	18.11821	3.886215	0.5
-22	9.52	19.97029	58.7296	0.46382	8.472712	18.26726	3.918184	0.5
-22	9.52	19.9182	60.04736	0.45257	8.452711	18.67713	4.006099	0.5
-22	9.52	19.8661	63.16206	0.433338	8.513333	19.64593	4.213898	0.6
-22	9.52	19.81401	65.43818	0.424687	8.644039	20.35389	4.365751	0.6
-21	9.52	19.77928	66.87573	0.42264	8.791356	20.80103	4.461658	0.6
-21	9.52	19.76192	67.35492	0.426218	8.929289	20.95007	4.493628	0.6
-21	9.52	19.72719	67.11533	0.434771	9.076082	20.87556	4.477643	0.6
-22	9.52	19.72719	66.63615	0.442613	9.173827	20.72651	4.445674	0.5
-22	9.52	19.69246	65.55798	0.454363	9.264987	20.39115	4.373744	0.5
-22	9.52	19.6751	65.0788	0.460602	9.323554	20.2421	4.341775	0.5
-22	9.52	19.65773	64.12042	0.471016	9.393944	19.94402	4.277836	0.5
-22	9.52	19.64037	62.44328	0.48536	9.426832	19.42235	4.165944	0.5
-22	9.52	19.623	59.68797	0.507519	9.422261	18.56534	3.982122	0.5
-22	9.52	19.58828	57.53164	0.523197	9.362421	17.89464	3.838261	0.5
-23	9.52	19.55355	55.6149	0.535742	9.267506	17.29846	3.710385	0.4
-23	9.52	19.51882	53.45857	0.547573	9.104914	16.62775	3.566524	0.4
-23	9.52	19.48409	51.42204	0.557498	8.916804	15.99431	3.430655	0.4
-23	9.52	19.44936	49.6251	0.564208	8.70877	15.43539	3.310771	0.4
-23	9.52	19.41463	47.34897	0.573472	8.445773	14.72743	3.158918	0.4
-24	9.52	19.37991	45.07285	0.581623	8.154039	14.01946	3.007065	0.4
-24	9.52	19.34518	42.31754	0.595247	7.834912	13.16245	2.823242	0.4
-24	9.52	19.31045	40.16121	0.598712	7.478952	12.49174	2.679381	0.4

-24	9.52	19.29309	38.00488	0.603337	7.132065	11.82104	2.53552	0.4
-24	9.52	19.25836	35.96834	0.606124	6.781069	11.18759	2.399651	0.4
-25	9.52	19.24099	34.05161	0.605357	6.41158	10.59141	2.271775	0.4
-25	9.52	19.20626	32.37446	0.598915	6.030927	10.06975	2.159883	0.4
-25	9.52	19.17154	30.45772	0.596808	5.653895	9.473566	2.032007	0.4
-26	9.52	19.13681	28.54098	0.595224	5.284034	8.877387	1.90413	0.4
-26	9.52	19.11944	27.10343	0.584864	4.930546	8.430247	1.808223	0.4
-26	9.52	19.08471	25.54608	0.577399	4.587926	7.945854	1.704323	0.4
-26	9.52	19.06735	23.96627	0.565608	4.216305	7.454469	1.598925	0.4
-27	9.52	19.03262	22.60359	0.55514	3.902981	7.03062	1.508013	0.4
-27	9.52	19.01526	21.33076	0.544407	3.611986	6.634718	1.423096	0.4
-27	9.52	18.98053	20.55957	0.52507	3.357744	6.394848	1.371645	0.5
-27	9.52	18.96317	20.46972	0.496492	3.161119	6.366902	1.365651	0.5
-27	9.52	18.9458	19.93064	0.484418	3.003016	6.199226	1.329686	0.5
-27	9.52	18.92844	18.90488	0.483551	2.843364	5.880175	1.261251	0.5
-27	9.52	18.91107	18.05134	0.47584	2.671695	5.614688	1.204307	0.5
-28	9.52	18.89371	17.20528	0.469312	2.511537	5.351529	1.147862	0.5
-28	9.52	18.87634	16.44906	0.459853	2.352754	5.116317	1.09741	0.5
-28	9.52	18.85898	15.67039	0.453875	2.21224	4.874118	1.04546	0.5
-28	9.52	18.82425	14.76443	0.449628	2.064842	4.592329	0.985019	0.5
-29	9.52	18.82425	13.75365	0.450233	1.926068	4.277936	0.917584	0.5
-29	9.52	18.80689	13.07231	0.441719	1.796035	4.066012	0.872128	0.5
-29	9.52	18.78952	12.30861	0.428353	1.639937	3.82847	0.821177	0.6
-29	9.52	18.77216	11.52994	0.420769	1.508992	3.586272	0.769228	0.6
-30	9.52	18.73743	10.90849	0.41094	1.394309	3.392978	0.727767	0.6
-30	9.52	18.73743	10.2571	0.404009	1.288937	3.190368	0.684309	0.6
-30	9.52	18.72007	9.897714	0.388804	1.196965	3.078585	0.660332	0.6
-30	9.52	18.72007	9.50089	0.378885	1.119664	2.955157	0.633858	0.6
-30	9.52	18.7027	9.321196	0.36406	1.055507	2.899264	0.62187	0.7
-30	9.52	18.68534	9.298734	0.349874	1.011934	2.892279	0.620371	0.7
-30	9.52	18.68534	9.261297	0.343514	0.989537	2.880634	0.617874	0.7
-30	9.52	18.66797	9.08909	0.342799	0.969118	2.827071	0.606385	0.7
-31	9.52	18.66797	8.797088	0.347597	0.951112	2.736246	0.586903	0.7
-31	9.52	18.66797	8.579957	0.348186	0.929208	2.66871	0.572417	0.7
-31	9.52	18.65061	8.332877	0.348862	0.904201	2.591859	0.555933	0.7
-31	9.52	18.65061	8.512571	0.334901	0.886734	2.64775	0.567922	0.7
-31	9.52	18.65061	8.535033	0.327925	0.870555	2.654737	0.56942	0.7
-31	9.52	18.65061	8.183132	0.335128	0.852996	2.545282	0.545943	0.7
-31	9.52	18.65061	8.168158	0.329149	0.836244	2.540624	0.544944	0.7
-31	9.52	18.65061	7.973489	0.330886	0.820622	2.480074	0.531957	0.7
-31	9.52	18.63325	7.629076	0.336055	0.797441	2.372948	0.508979	0.7
-31	9.52	18.63325	7.277174	0.341005	0.771862	2.263493	0.485501	0.7
-31	9.52	18.63325	6.895324	0.346819	0.743831	2.144721	0.460026	0.7
-32	9.52	18.61588	6.655732	0.346507	0.717338	2.070199	0.444042	0.7
-32	9.52	18.61588	6.33378	0.350447	0.690401	1.970059	0.422562	0.7
-32	9.52	18.61588	5.921981	0.357236	0.658019	1.841972	0.395089	0.7
-32	9.52	18.61588	5.577567	0.359538	0.623742	1.734846	0.372111	0.7
-32	9.52	18.61588	5.195717	0.364889	0.589689	1.616076	0.346636	0.7
-33	9.52	18.59852	4.821354	0.369728	0.554457	1.499634	0.32166	0.6
-33	9.52	18.59852	4.499402	0.372294	0.521023	1.399494	0.300181	0.6
-33	9.52	18.59852	4.372119	0.359765	0.489246	1.359904	0.291689	0.7
-33	9.52	18.59852	4.169963	0.354767	0.460141	1.297025	0.278202	0.7
-33	9.52	18.59852	4.04268	0.34509	0.433928	1.257435	0.26971	0.7
-34	9.52	18.59852	3.788113	0.349177	0.411419	1.178255	0.252726	0.7
-34	9.52	18.59852	3.593444	0.348826	0.389885	1.117705	0.239739	0.7
-34	9.52	18.58115	3.481135	0.340388	0.368562	1.082772	0.232246	0.7
-34	9.52	18.58115	3.323903	0.335483	0.346845	1.033867	0.221756	0.7
-34	9.52	18.58115	3.129234	0.334161	0.325244	0.973317	0.208769	0.7
-34	9.52	18.58115	2.897129	0.337245	0.303899	0.901123	0.193284	0.7
-35	9.52	18.58115	2.694973	0.335387	0.281137	0.838245	0.179797	0.7
-35	9.52	18.56379	2.605126	0.318268	0.257892	0.810299	0.173803	0.8
-3	14.04	28.27038	69.99043	0.12536	2.729069	21.76982	3.97694	1.0
-3	14.04	28.27038	70.11023	0.143416	3.127495	21.80709	3.983747	0.9
-3	14.04	28.28774	69.03207	0.143466	3.080462	21.47174	3.922485	0.9
-4	14.04	28.28774	71.54778	0.137818	3.067024	22.25423	4.06543	0.9
-4	14.04	28.28774	76.10004	0.129857	3.073744	23.67016	4.324095	1.0
-4	14.04	28.27038	78.37616	0.126637	3.087181	24.37811	4.453427	1.0
-4	14.04	28.27038	80.77209	0.122881	3.087181	25.12336	4.589567	1.0
-5	14.04	28.27038	81.25127	0.122156	3.087181	25.27238	4.616794	1.0
-5	14.04	28.27038	80.77209	0.122614	3.080462	25.12335	4.589567	1.0
-5	14.04	28.27038	79.69392	0.123459	3.060306	24.78799	4.528304	1.0

-5	14.04	28.27038	77.77718	0.125669	3.040149	24.19181	4.419392	1.0
-6	14.04	28.27038	76.10004	0.127587	3.019992	23.67016	4.324095	1.0
-6	14.04	28.27038	75.02187	0.12942	3.019992	23.3348	4.262832	1.0
-6	14.04	28.25301	73.9437	0.109528	2.519081	22.99944	4.201569	1.1
-7	14.04	28.27038	73.82391	0.111611	2.562827	22.96219	4.194763	1.1
-7	14.04	28.27038	74.78228	0.112837	2.624609	23.26028	4.249219	1.1
-7	14.04	28.27038	75.38126	0.139979	3.282029	23.4466	4.283253	0.9
-7	14.04	28.27038	75.02187	0.146984	3.429844	23.3348	4.262832	0.8
-8	14.04	28.25301	75.86044	0.149915	3.537346	23.59563	4.310481	0.8
-8	14.04	28.27038	79.09494	0.14597	3.591097	24.6017	4.494269	0.8
-8	14.04	28.27038	80.1731	0.143198	3.570941	24.93705	4.555531	0.9
-8	14.04	28.25301	80.2929	0.141909	3.544065	24.9743	4.562339	0.9
-9	14.04	28.23565	78.97514	0.143182	3.51719	24.56443	4.487462	0.9
-9	14.04	28.21828	78.49596	0.142956	3.490314	24.41539	4.460234	0.9
-9	14.04	28.18356	78.01678	0.143003	3.470158	24.26634	4.433007	0.9
-9	14.04	28.14883	78.37616	0.14152	3.450001	24.37812	4.453427	0.9
-9	14.04	28.09674	78.25636	0.140081	3.409687	24.34086	4.44662	0.9
-10	14.04	28.04464	78.25636	0.137873	3.355937	24.34087	4.44662	0.9
-10	14.04	27.95782	79.09494	0.134772	3.315623	24.60168	4.494269	0.9
-10	14.04	27.83627	79.69392	0.133217	3.302186	24.788	4.528304	0.9
-11	14.04	27.71472	80.53249	0.13183	3.302186	25.04884	4.575952	0.9
-11	14.04	27.55844	80.2929	0.13303	3.322342	24.97431	4.562339	0.9
-11	14.04	27.3848	81.61066	0.131676	3.342498	25.38419	4.637215	0.9
-11	14.04	27.21116	82.68882	0.130221	3.349217	25.71953	4.698478	0.9
-12	14.04	27.03752	84.72536	0.127856	3.369374	26.35296	4.814196	1.0
-12	14.04	26.88124	85.56393	0.126603	3.369374	26.6138	4.861845	1.0
-12	14.04	26.7076	86.04311	0.125646	3.362655	26.76285	4.889072	1.0
-12	14.04	26.51659	86.64209	0.125276	3.376093	26.94916	4.923107	1.0
-13	14.04	26.36031	88.31924	0.12412	3.409687	27.47083	5.018405	1.0
-13	14.04	26.20404	89.27761	0.124724	3.463439	27.76891	5.072861	1.0
-13	14.04	26.0304	89.15781	0.127072	3.523908	27.73165	5.066053	1.0
-13	14.04	25.90885	88.79842	0.129532	3.577659	27.61987	5.045632	1.0
-13	14.04	25.76993	89.5172	0.12994	3.617973	27.84343	5.086474	1.0
-13	14.04	25.64838	88.91822	0.132273	3.658286	27.65713	5.05244	0.9
-14	14.04	25.50947	89.15781	0.11073	3.070716	27.73163	5.066053	1.1
-14	14.04	25.40528	88.67863	0.112641	3.106928	27.5826	5.038826	1.1
-14	14.04	25.28373	87.72026	0.114593	3.126613	27.2845	4.98437	1.1
-14	14.04	25.12746	88.31924	0.114169	3.13632	27.47083	5.018405	1.1
-15	14.04	24.97118	87.95985	0.115201	3.151785	27.35903	4.997984	1.1
-15	14.04	24.79754	87.48067	0.116175	3.161127	27.21	4.970756	1.1
-15	14.04	24.64126	86.16291	0.118182	3.167295	26.8001	4.89588	1.0
-15	14.04	24.50235	86.4025	0.118151	3.175263	26.87464	4.909493	1.0
-16	14.04	24.3808	86.88168	0.117713	3.181047	27.02368	4.936721	1.0
-16	14.04	24.25925	86.64209	0.118693	3.198663	26.94916	4.923107	1.0
-16	14.04	24.15506	85.80352	0.120694	3.221119	26.68833	4.875459	1.0
-17	14.04	24.03351	85.44413	0.122311	3.250596	26.57655	4.855038	1.0
-17	14.04	23.92933	84.60556	0.125523	3.303238	26.31571	4.807389	1.0
-17	14.04	23.80778	84.48576	0.12738	3.34735	26.27846	4.800582	1.0
-17	14.04	23.70359	84.96495	0.128533	3.396813	26.4275	4.82781	1.0
-18	14.04	23.59941	85.08474	0.130255	3.447153	26.46475	4.834617	0.9
-18	14.04	23.51259	85.56393	0.131888	3.510048	26.6138	4.861845	0.9
-18	14.04	23.44313	85.20454	0.134945	3.576326	26.50202	4.841424	0.9
-19	14.04	23.35631	84.84515	0.137541	3.629733	26.39024	4.821003	0.9
-19	14.04	23.28685	83.5274	0.141793	3.683837	25.98037	4.746127	0.9
-19	14.04	23.20003	83.04821	0.144837	3.741322	25.83131	4.718899	0.9
-19	14.04	23.13057	81.25127	0.150344	3.799561	25.2724	4.616794	0.8
-20	14.04	23.06112	78.73555	0.157263	3.851364	24.48991	4.473848	0.8
-20	14.04	22.9743	76.69901	0.164037	3.91335	23.85647	4.358129	0.8
-20	14.04	22.90484	74.78228	0.171104	3.979918	23.26028	4.249219	0.7
-21	14.04	22.81802	75.02187	0.17436	4.068652	23.3348	4.262832	0.7
-21	14.04	22.74856	73.58432	0.181891	4.163052	22.88767	4.181149	0.7
-21	14.04	22.6791	73.70412	0.187727	4.303635	22.92493	4.187956	0.7
-22	14.04	22.59228	73.58432	0.194923	4.461333	22.88768	4.181149	0.6
-22	14.04	22.52283	73.82391	0.202003	4.638423	22.96219	4.194763	0.6
-22	14.04	22.45337	74.0635	0.210129	4.840685	23.03672	4.208377	0.6
-22	14.04	22.36655	73.34473	0.221886	5.061917	22.81313	4.167535	0.6
-23	14.04	22.29709	71.90717	0.237746	5.317436	22.366	4.085851	0.5
-23	14.04	22.21027	69.03207	0.261256	5.609615	21.47174	3.922485	0.5
-23	14.04	22.10609	66.51635	0.287495	5.948061	20.68925	3.779539	0.4
-23	14.04	21.98454	64.24022	0.318199	6.358025	19.98128	3.650206	0.4
-24	14.04	21.86299	62.20369	0.355386	6.875958	19.34784	3.534488	0.3

-24	14.04	21.74144	61.9641	0.38899	7.497127	19.27331	3.520874	0.3
-24	14.04	21.60252	61.36512	0.430854	8.22372	19.08701	3.486839	0.3
-25	14.04	21.46361	61.24532	0.473476	9.01959	19.04975	3.480032	0.3
-25	14.04	21.30733	60.52654	0.520741	9.803557	18.82618	3.43919	0.2
-25	14.04	21.13369	60.04736	0.563196	10.51889	18.67713	3.411963	0.2
-25	14.04	20.96005	58.7296	0.607799	11.10281	18.26726	3.337086	0.2
-26	14.04	20.80377	56.45348	0.655634	11.51246	17.55929	3.207754	0.2
-26	14.04	20.63013	54.05755	0.698001	11.73623	16.81406	3.071615	0.2
-26	14.04	20.47385	50.22408	0.752609	11.75702	15.6217	2.853792	0.2
-26	14.04	20.30021	46.6302	0.798179	11.57667	14.50386	2.649584	0.2
-27	14.04	20.14393	43.63529	0.827423	11.23005	13.57232	2.479409	0.1
-27	14.04	20.00502	41.35917	0.83657	10.76193	12.86435	2.350077	0.1
-27	14.04	19.8661	38.72365	0.849953	10.23735	12.0446	2.200324	0.1
-28	14.04	19.74455	37.0465	0.838068	9.657006	11.52294	2.105026	0.1
-28	14.04	19.64037	34.53079	0.844565	9.071015	10.74046	1.962081	0.1
-28	14.04	19.53618	32.01507	0.854047	8.504572	9.957965	1.819135	0.1
-29	14.04	19.44936	29.61915	0.862874	7.949435	9.212739	1.682996	0.1
-29	14.04	19.34518	27.82221	0.855327	7.401845	8.65382	1.580891	0.1
-29	14.04	19.27572	25.90547	0.854681	6.886706	8.057636	1.47198	0.1
-29	14.04	19.20626	24.46791	0.842811	6.414215	7.610501	1.390296	0.1
-30	14.04	19.13681	23.08277	0.82348	5.912309	7.179666	1.311591	0.1
-30	14.04	19.06735	21.94471	0.805741	5.499732	6.825682	1.246925	0.2
-30	14.04	19.01526	20.79916	0.791021	5.117407	6.469369	1.181833	0.2
-31	14.04	18.96317	19.48889	0.784033	4.752674	6.061827	1.107382	0.2
-31	14.04	18.92844	18.08129	0.782015	4.398054	5.624003	1.027401	0.2
-31	14.04	18.87634	16.80096	0.779732	4.074701	5.225772	0.954651	0.2
-31	14.04	18.84162	16.0747	0.754556	3.772686	4.999875	0.913384	0.2
-32	14.04	18.80689	15.23613	0.740737	3.510388	4.739046	0.865735	0.2
-32	14.04	18.78952	14.76443	0.712608	3.272531	4.592329	0.838933	0.2
-32	14.04	18.7548	13.8435	0.705897	3.039508	4.305882	0.786604	0.2
-32	14.04	18.72007	13.18462	0.690847	2.833124	4.100945	0.749166	0.2
-33	14.04	18.7027	12.376	0.684911	2.636516	3.84943	0.703219	0.2
-33	14.04	18.66797	11.54491	0.68247	2.4507	3.590929	0.655996	0.2
-33	14.04	18.65061	10.85608	0.675504	2.280957	3.376676	0.616855	0.2
-34	14.04	18.61588	10.09987	0.669367	2.10279	3.141463	0.573887	0.2
-34	14.04	18.59852	9.538326	0.654512	1.941808	2.966801	0.541979	0.2
-34	14.04	18.58115	9.029192	0.64018	1.797906	2.80844	0.513049	0.2
-34	14.04	18.56379	8.505084	0.629963	1.666518	2.645422	0.483269	0.2
-35	14.04	18.54642	7.995951	0.612172	1.522509	2.487061	0.454339	0.2
-35	14.04	18.52906	7.471843	0.602833	1.40101	2.324042	0.424559	0.2
-35	14.04	18.5117	6.902812	0.602034	1.292598	2.14705	0.392226	0.2
-36	14.04	18.5117	6.318806	0.612263	1.203343	1.965401	0.359042	0.2
-36	14.04	18.49433	5.809672	0.627054	1.133111	1.80704	0.330113	0.2
-36	14.04	18.47697	5.457771	0.633364	1.075188	1.697585	0.310117	0.2
-37	14.04	18.47697	5.195717	0.62177	1.004827	1.616076	0.295227	0.2
-37	14.04	18.4596	4.881252	0.615342	0.934253	1.518265	0.277359	0.2
-37	14.04	18.4596	4.536839	0.615816	0.869001	1.411138	0.257789	0.2
-38	14.04	18.4596	4.12504	0.631564	0.810329	1.283053	0.23439	0.2
-38	14.04	18.4596	3.900422	0.621398	0.753872	1.213187	0.221627	0.2
-38	14.04	18.44224	3.645855	0.614599	0.696959	1.134007	0.207162	0.2
-39	14.04	18.44224	3.428725	0.600588	0.64051	1.066471	0.194824	0.2
-39	14.04	18.44224	3.286467	0.571264	0.583959	1.022223	0.186741	0.2
-39	14.04	18.44224	3.181645	0.535984	0.53042	0.989618	0.180785	0.2
-39	14.04	18.44224	3.001951	0.516098	0.481895	0.933727	0.170574	0.2
-39	14.04	18.42488	3.189132	0.448169	0.44456	0.991947	0.18121	0.3
-39	14.04	18.44224	3.226569	0.416191	0.417686	1.003592	0.183338	0.3
-39	14.04	18.44224	3.19662	0.400989	0.398694	0.994277	0.181636	0.3
-39	14.04	18.42488	3.136722	0.39459	0.38498	0.975646	0.178232	0.3
-39	14.04	18.42488	3.129234	0.384227	0.373974	0.973317	0.177807	0.3
-40	14.04	18.42488	2.972002	0.396736	0.366748	0.924411	0.168873	0.3
-40	14.04	18.42488	2.769846	0.413935	0.356619	0.861533	0.157386	0.3
-40	14.04	18.40751	2.492817	0.436273	0.338272	0.775366	0.141645	0.3
-40	14.04	18.40751	2.425432	0.416458	0.314179	0.754406	0.137816	0.3
-41	14.04	18.39015	2.455381	0.383666	0.293014	0.763722	0.139518	0.3
-2	21.83	28.1141	62.56308	0.286112	5.56762	19.45961	4.313036	0.4
-3	21.83	28.13146	68.43308	0.223313	4.753305	21.28543	4.717708	0.5
-3	21.83	28.13146	67.11533	0.193496	4.03933	20.87555	4.626863	0.5
-3	21.83	28.1141	65.55798	0.169246	3.451112	20.39115	4.519501	0.6
-4	21.83	28.13146	64.00063	0.151928	3.024392	19.90676	4.412139	0.7
-4	21.83	28.13146	64.8392	0.16507	3.329061	20.16758	4.469949	0.6
-4	21.83	28.13146	66.87573	0.149061	3.100619	20.80102	4.610346	0.7

-4	21.83	28.13146	66.99553	0.141056	2.939366	20.83829	4.618605	0.7
-5	21.83	28.13146	68.31329	0.132327	2.811707	21.24817	4.70945	0.8
-5	21.83	28.13146	67.9539	0.106751	2.256339	21.13639	4.684674	1.0
-5	21.83	28.1141	68.67268	0.104154	2.224714	21.35995	4.734226	1.0
-5	21.83	28.1141	68.31329	0.101283	2.152087	21.24817	4.70945	1.0
-6	21.83	28.1141	67.83411	0.098741	2.083353	21.09912	4.676415	1.1
-6	21.83	28.13146	66.39655	0.11923	2.462325	20.65198	4.577312	0.9
-6	21.83	28.13146	65.43818	0.119325	2.428731	20.3539	4.511242	0.9
-6	21.83	28.13146	64.59961	0.098754	1.984268	20.09307	4.453432	1.1
-6	21.83	28.13146	63.88083	0.119867	2.381699	19.86949	4.40388	0.9
-6	21.83	28.13146	63.64124	0.11964	2.368261	19.79497	4.387363	0.9
-6	21.83	28.13146	63.04226	0.120434	2.361542	19.60866	4.34607	0.9
-6	21.83	28.13146	63.64124	0.11964	2.368261	19.79497	4.387363	0.9
-6	21.83	28.13146	64.8392	0.098527	1.987048	20.16759	4.469949	1.1
-6	21.83	28.13146	66.99553	0.097336	2.028322	20.83829	4.618605	1.1
-6	21.83	28.13146	68.91227	0.096122	2.060331	21.43447	4.750743	1.1
-6	21.83	28.13146	69.99043	0.09584	2.086427	21.76982	4.82507	1.1
-6	21.83	28.13146	70.11023	0.096644	2.107534	21.80708	4.833329	1.1
-7	21.83	28.1141	69.27166	0.098781	2.128356	21.54626	4.775519	1.1
-7	21.83	28.1141	68.19349	0.101242	2.14743	21.2109	4.701191	1.0
-7	21.83	28.1141	67.11533	0.103102	2.152311	20.87555	4.626863	1.0
-7	21.83	28.1141	65.31839	0.105594	2.145318	20.31663	4.502984	1.0
-7	21.83	28.1141	64.00063	0.106615	2.122351	19.90676	4.412139	1.0
-8	21.83	28.13146	62.80267	0.106923	2.088647	19.53414	4.329553	1.0
-8	21.83	28.13146	62.20369	0.128308	2.482482	19.34783	4.28826	0.8
-8	21.83	28.1141	62.32348	0.127715	2.475763	19.38509	4.296518	0.8
-9	21.83	28.09674	62.68287	0.125949	2.455606	19.49688	4.321294	0.8
-9	21.83	28.06201	63.04226	0.12386	2.428731	19.60866	4.34607	0.8
-9	21.83	28.02728	63.28185	0.121684	2.395136	19.68318	4.362587	0.9
-10	21.83	27.97519	63.04226	0.120776	2.368261	19.60867	4.34607	0.9
-10	21.83	27.90573	64.59961	0.116861	2.348104	20.09307	4.453432	0.9
-10	21.83	27.85364	66.63615	0.11329	2.348104	20.72651	4.593829	0.9
-10	21.83	27.76682	69.39146	0.109414	2.361542	21.58352	4.783778	1.0
-11	21.83	27.66263	72.50615	0.106204	2.395136	22.55231	4.998501	1.0
-11	21.83	27.54108	74.30309	0.105089	2.428731	23.11125	5.12238	1.0
-11	21.83	27.41953	75.98024	0.087561	2.069312	23.63289	5.238001	1.2
-11	21.83	27.31535	75.50105	0.090209	2.118447	23.48385	5.204967	1.2
-11	21.83	27.21116	73.58432	0.093673	2.143947	22.88767	5.072829	1.1
-12	21.83	27.12434	70.23003	0.097563	2.131192	21.84435	4.841588	1.1
-12	21.83	27.02015	67.23512	0.100547	2.102722	20.91281	4.635122	1.0
-12	21.83	26.93333	65.19859	0.100812	2.044412	20.27937	4.494725	1.0
-12	21.83	26.84651	62.92246	0.100678	1.970402	19.57141	4.337811	1.0
-13	21.83	26.74233	61.60471	0.098553	1.888425	19.16153	4.246967	1.1
-13	21.83	26.67287	61.60471	0.094623	1.813126	19.16153	4.246967	1.1
-13	21.83	26.60341	61.7245	0.091133	1.74965	19.19879	4.255225	1.1
-13	21.83	26.51659	61.8443	0.088754	1.70727	19.23605	4.263484	1.2
-14	21.83	26.4645	63.28185	0.103593	2.039036	19.6832	4.362587	1.0
-14	21.83	26.37768	64.24022	0.101711	2.032317	19.98129	4.428656	1.0
-14	21.83	26.29086	65.91737	0.099123	2.032317	20.50294	4.544277	1.1
-15	21.83	26.2214	66.99553	0.081944	1.707577	20.83829	4.618605	1.3
-15	21.83	26.13458	68.55288	0.081684	1.741733	21.32269	4.725967	1.3
-15	21.83	26.04776	69.75084	0.082711	1.794441	21.6953	4.808553	1.3
-15	21.83	25.94357	70.34982	0.084428	1.847426	21.88161	4.849846	1.2
-16	21.83	25.83939	69.63104	0.087426	1.893485	21.65804	4.800294	1.2
-16	21.83	25.7352	68.31329	0.090987	1.933305	21.24816	4.70945	1.1
-16	21.83	25.63102	65.55798	0.095728	1.951995	20.39115	4.519501	1.1
-17	21.83	25.4921	62.56308	0.100265	1.951122	19.45961	4.313036	1.0
-17	21.83	25.37056	59.92756	0.104296	1.944067	18.63987	4.131346	1.0
-17	21.83	25.23164	58.01082	0.106467	1.921059	18.04369	3.999208	1.0
-17	21.83	25.09273	56.21388	0.108148	1.890947	17.48478	3.875328	1.0
-18	21.83	24.95381	55.25551	0.107753	1.851914	17.18668	3.809259	1.0
-18	21.83	24.83226	54.41694	0.106764	1.807072	16.92584	3.751449	1.0
-18	21.83	24.71072	53.33878	0.106734	1.770765	16.5905	3.677122	1.0
-18	21.83	24.58917	53.09918	0.104878	1.732169	16.51597	3.660604	1.0
-19	21.83	24.45025	52.7398	0.103621	1.699822	16.40419	3.635829	1.0
-19	21.83	24.3287	52.97939	0.101476	1.672187	16.47871	3.652346	1.0
-19	21.83	24.18979	52.97939	0.100314	1.653049	16.47872	3.652346	1.0
-19	21.83	24.06824	52.97939	0.100269	1.652297	16.47871	3.652346	1.0
-20	21.83	23.94669	53.09918	0.100226	1.655332	16.51597	3.660604	1.0
-20	21.83	23.82514	52.85959	0.101539	1.669447	16.44145	3.644087	1.0
-20	21.83	23.70359	52.62	0.102608	1.679381	16.36692	3.62757	1.0

-20	21.83	23.59941	51.54184	0.105316	1.688377	16.03157	3.553243	1.0
-21	21.83	23.49522	50.22408	0.108411	1.69357	15.62169	3.462398	1.0
-21	21.83	23.39104	49.6251	0.110065	1.698888	15.43539	3.421105	0.9
-21	21.83	23.30422	48.78653	0.112306	1.704201	15.17456	3.363294	0.9
-21	21.83	23.23476	47.82816	0.114672	1.705915	14.87648	3.297225	0.9
-22	21.83	23.1653	46.6302	0.118091	1.712769	14.50386	3.214639	0.9
-22	21.83	23.09584	45.79162	0.119987	1.708979	14.24303	3.156828	0.9
-22	21.83	23.04375	45.19264	0.121505	1.707963	14.05672	3.115535	0.9
-22	21.83	22.99166	44.35407	0.123593	1.705071	13.79589	3.057725	0.8
-22	21.83	22.93957	43.75509	0.124911	1.699989	13.60958	3.016432	0.8
-23	21.83	22.90484	43.99468	0.123914	1.695654	13.68411	3.032949	0.8
-23	21.83	22.83538	43.63529	0.124628	1.691497	13.57233	3.008173	0.8
-23	21.83	22.80065	43.03631	0.126603	1.694715	13.38601	2.96688	0.8
-23	21.83	22.76592	42.43733	0.128662	1.698301	13.19971	2.925587	0.8
-23	21.83	22.69647	41.95815	0.130549	1.703746	13.05067	2.892553	0.8
-24	21.83	22.66174	40.99978	0.134171	1.711019	12.75258	2.826484	0.8
-24	21.83	22.60965	40.64039	0.136984	1.73158	12.64079	2.801708	0.8
-24	21.83	22.55755	39.92161	0.142709	1.772048	12.41722	2.752156	0.7
-25	21.83	22.52283	39.20284	0.149293	1.82043	12.19365	2.702604	0.7
-25	21.83	22.47073	38.60386	0.155888	1.871805	12.00735	2.661311	0.7
-25	21.83	22.436	38.12467	0.162741	1.929835	11.8583	2.628276	0.6
-25	21.83	22.38391	37.88508	0.168986	1.99129	11.78377	2.611759	0.6
-25	21.83	22.33182	37.1663	0.178573	2.064339	11.5602	2.562207	0.6
-26	21.83	22.27973	36.68712	0.187913	2.144302	11.41116	2.529173	0.6
-26	21.83	22.21027	35.84855	0.199978	2.229821	11.15033	2.471363	0.5
-26	21.83	22.14081	35.36936	0.211246	2.323975	11.00129	2.438328	0.5
-26	21.83	22.07136	34.77038	0.224458	2.427507	10.81498	2.397035	0.5
-27	21.83	21.98454	34.05161	0.240263	2.544726	10.59141	2.347484	0.4
-27	21.83	21.93244	33.57242	0.254972	2.662508	10.44237	2.314449	0.4
-27	21.83	21.84562	32.97344	0.269267	2.761622	10.25606	2.273156	0.4
-27	21.83	21.77617	32.37446	0.284971	2.869585	10.06975	2.231863	0.4
-27	21.83	21.70671	31.53588	0.305219	2.993868	9.808922	2.174052	0.3
-28	21.83	21.63725	30.45772	0.332981	3.154514	9.47357	2.099725	0.3
-28	21.83	21.55043	29.85874	0.359451	3.338312	9.287263	2.058432	0.3
-28	21.83	21.44625	29.13996	0.393947	3.570616	9.063693	2.00888	0.3
-28	21.83	21.35942	28.54098	0.429193	3.810108	8.877388	1.967587	0.2
-28	21.83	21.2726	28.0618	0.465073	4.059314	8.728343	1.934552	0.2
-29	21.83	21.16842	27.34302	0.509006	4.328977	8.504774	1.885	0.2
-29	21.83	21.04687	26.62424	0.554177	4.589253	8.28121	1.835448	0.2
-29	21.83	20.92532	25.78567	0.598439	4.799706	8.020373	1.777638	0.2
-29	21.83	20.76904	24.9471	0.635979	4.934904	7.759542	1.719828	0.2
-30	21.83	20.63013	24.34812	0.660506	5.002171	7.573241	1.678535	0.2
-30	21.83	20.47385	23.21006	0.689355	4.976631	7.219258	1.600078	0.2
-30	21.83	20.26548	22.15435	0.70873	4.883777	6.890888	1.527299	0.1
-31	21.83	20.09184	21.04624	0.722856	4.731977	6.546221	1.450907	0.1
-31	21.83	19.9182	20.12531	0.731228	4.577321	6.259777	1.387419	0.1
-31	21.83	19.77928	19.1295	0.737165	4.386161	5.950038	1.318769	0.1
-31	21.83	19.623	18.05134	0.747738	4.198315	5.614688	1.244441	0.1
-32	21.83	19.48409	17.08548	0.756954	4.022659	5.314268	1.177856	0.1
-32	21.83	19.32781	15.91747	0.778588	3.854763	4.950969	1.097334	0.1
-32	21.83	19.1889	15.06392	0.791977	3.710794	4.685483	1.038492	0.1
-33	21.83	19.06735	14.11304	0.811451	3.562042	4.38972	0.972939	0.1
-33	21.83	18.9458	13.4916	0.816632	3.426937	4.196427	0.930097	0.1
-33	21.83	18.84162	12.84769	0.825376	3.298323	3.996147	0.885707	0.1
-34	21.83	18.73743	12.18133	0.836506	3.169419	3.78888	0.839769	0.1
-34	21.83	18.65061	11.46255	0.854671	3.047169	3.565312	0.790217	0.1
-34	21.83	18.56379	10.81116	0.869881	2.925151	3.362703	0.745311	0.1
-34	21.83	18.47697	10.18223	0.88795	2.81221	3.167081	0.701953	0.1
-35	21.83	18.40751	9.493402	0.91647	2.706178	2.952828	0.654466	0.1
-35	21.83	18.33805	8.961807	0.937177	2.612364	2.787481	0.617818	0.1
-35	21.83	18.2686	8.302929	0.970789	2.507104	2.582543	0.572396	0.1
-36	21.83	18.21651	7.763846	0.996097	2.40544	2.414867	0.535232	0.1
-36	21.83	18.16441	7.157378	1.028983	2.290754	2.226231	0.493422	0.1
-36	21.83	18.11232	6.685681	1.04351	2.169993	2.079514	0.460904	0.1
-37	21.83	18.07759	6.513474	1.011341	2.048928	2.025951	0.449032	0.1
-37	21.83	18.0255	6.109162	1.024183	1.946146	1.900193	0.421159	0.1
-37	21.83	17.97341	5.667414	1.044582	1.841381	1.762793	0.390706	0.1
-37	21.83	17.93868	5.225666	1.071164	1.741061	1.625391	0.360252	0.1
-38	21.83	17.90395	4.851303	1.075168	1.622375	1.50895	0.334444	0.1
-38	21.83	17.86922	4.349657	1.122981	1.519301	1.352918	0.299861	0.1
-38	21.83	17.83449	3.982781	1.144141	1.417367	1.238805	0.274569	0.1

-39	21.83	17.81713	3.533546	1.203817	1.323085	1.099075	0.243599	0.1
-39	21.83	17.7824	3.226569	1.228847	1.233261	1.003592	0.222436	0.1
-40	21.83	17.76504	3.016925	1.219997	1.144826	0.938385	0.207984	0.1
-40	21.83	17.74767	2.94954	1.151536	1.056448	0.917425	0.203338	0.1
-40	21.83	17.73031	2.777333	1.13997	0.984776	0.863861	0.191467	0.1
-40	21.83	17.71294	2.43292	1.20346	0.9107	0.756735	0.167723	0.1
-41	21.83	17.69558	2.253225	1.194441	0.837116	0.700843	0.155335	0.1
-41	21.83	17.67822	1.983684	1.246737	0.769243	0.617005	0.136753	0.1
-41	21.83	17.66085	1.729117	1.308669	0.703834	0.537825	0.119204	0.1
-42	21.83	17.64349	1.601834	1.298615	0.647015	0.498235	0.110429	0.1
-42	21.83	17.64349	1.474551	1.280943	0.587497	0.458644	0.101654	0.1
-42	21.83	17.62612	1.414653	1.215881	0.535004	0.440013	0.097525	0.1
-42	21.83	17.62612	1.369729	1.141094	0.486152	0.426041	0.094428	0.1
-42	21.83	17.60876	1.347267	1.0749	0.450441	0.419054	0.092879	0.1
-42	21.83	17.60876	1.272395	1.067862	0.422623	0.395766	0.087718	0.1
-42	21.83	17.59139	1.444602	0.915001	0.411136	0.449329	0.099589	0.1
-42	21.83	17.59139	1.669219	0.798003	0.414319	0.519194	0.115074	0.1
-41	21.83	17.59139	1.781528	0.775002	0.429449	0.554127	0.122817	0.1
-41	21.83	17.59139	1.818964	0.80356	0.454631	0.565771	0.125398	0.1
-41	21.83	17.59139	1.744092	0.856899	0.464852	0.542482	0.120236	0.1
-41	21.83	17.57403	1.72163	0.86915	0.465426	0.535496	0.118687	0.1
-42	21.83	17.57403	1.579372	0.932088	0.457886	0.491248	0.10888	0.1
-42	21.83	17.57403	1.392191	1.021235	0.442222	0.433027	0.095976	0.1
-42	21.83	17.57403	1.317318	1.034788	0.423992	0.409738	0.090815	0.1
-43	21.83	17.55667	1.25742	1.022669	0.399974	0.391108	0.086685	0.1
-43	21.83	17.55667	1.17506	1.037184	0.379081	0.365491	0.081007	0.1
-43	21.83	17.55667	1.115162	1.029266	0.357011	0.34686	0.076878	0.1
-43	21.83	17.55667	1.085213	0.99737	0.336657	0.337545	0.074813	0.1
-43	21.83	17.55667	0.995366	1.037812	0.321305	0.309599	0.06862	0.1
-3	32.54	27.69736	5.839621	0.135208	0.245586	1.816356	27.95303	0.7
-3	32.54	27.71472	5.689876	0.123493	0.218556	1.769779	27.23623	0.8
-3	32.54	27.73209	5.727312	0.112476	0.200367	1.781423	27.41543	0.8
-4	32.54	27.74945	5.562593	0.109305	0.189118	1.730189	26.62696	0.9
-4	32.54	27.74945	5.457771	0.104254	0.17698	1.697585	26.1252	0.9
-4	32.54	27.74945	4.971099	0.106533	0.164722	1.546211	23.7956	0.9
-5	32.54	27.76682	5.068434	0.098217	0.154838	1.576486	24.26152	0.9
-5	32.54	27.76682	4.768943	0.099662	0.147833	1.483332	22.82792	0.9
-5	32.54	27.78418	4.873765	0.093198	0.141282	1.515936	23.32968	1.0
-6	32.54	27.76682	4.813867	0.091186	0.136533	1.497305	23.04296	1.0
-6	32.54	27.78418	4.896227	0.086644	0.131952	1.522922	23.4372	1.1
-6	32.54	27.78418	4.731507	0.086569	0.127403	1.471688	22.64872	1.1
-6	32.54	27.80154	4.491915	0.088222	0.12326	1.397165	21.50185	1.1
-7	32.54	27.78418	4.140014	0.093144	0.119942	1.28771	19.81737	1.0
-7	32.54	27.80154	4.184937	0.09019	0.117399	1.301683	20.03241	1.0
-7	32.54	27.78418	4.050167	0.091765	0.115602	1.259764	19.38729	1.0
-7	32.54	27.80154	4.327195	0.08452	0.113758	1.345931	20.71337	1.1
-8	32.54	27.80154	4.12504	0.087271	0.111973	1.283052	19.74569	1.1
-8	32.54	27.80154	4.237348	0.082866	0.109216	1.317985	20.28329	1.1
-8	32.54	27.80154	3.922884	0.086943	0.106085	1.220174	18.77802	1.1
-9	32.54	27.80154	3.833036	0.086484	0.103109	1.192228	18.34793	1.1
-9	32.54	27.78418	3.922884	0.081977	0.100027	1.220174	18.77802	1.1
-9	32.54	27.73209	3.765651	0.082662	0.096819	1.171268	18.02538	1.1
-10	32.54	27.61054	3.585957	0.085123	0.094944	1.115376	17.16522	1.1
-10	32.54	27.50635	3.503597	0.08442	0.091998	1.089759	16.77098	1.1
-10	32.54	27.3848	3.451186	0.083757	0.08991	1.073457	16.5201	1.1
-10	32.54	27.26325	3.511084	0.079866	0.087221	1.092088	16.80682	1.2
-11	32.54	27.15907	3.57847	0.076891	0.085584	1.113047	17.12938	1.2
-11	32.54	27.07225	3.585957	0.075037	0.083694	1.115376	17.16522	1.2
-11	32.54	26.9507	3.526059	0.075138	0.082408	1.096746	16.8785	1.2
-12	32.54	26.84651	3.451186	0.075927	0.081504	1.073457	16.5201	1.2
-12	32.54	26.74233	3.376314	0.076283	0.08011	1.050169	16.1617	1.2
-12	32.54	26.63814	3.234056	0.078403	0.078867	1.005921	15.48074	1.2
-13	32.54	26.53396	3.211594	0.078909	0.078825	0.998934	15.37322	1.2
-13	32.54	26.44714	3.204107	0.077907	0.077643	0.996606	15.33738	1.2
-13	32.54	26.36031	3.19662	0.077547	0.077103	0.994277	15.30154	1.2
-13	32.54	26.29086	3.278979	0.075088	0.076581	1.019894	15.69578	1.2
-14	32.54	26.23877	3.241543	0.075576	0.0762	1.00825	15.51658	1.2
-14	32.54	26.2214	3.166671	0.076211	0.075065	0.984961	15.15818	1.2
-14	32.54	26.18667	2.94954	0.082154	0.07537	0.917425	14.11882	1.1
-15	32.54	26.15194	3.076823	0.07859	0.075212	0.957015	14.7281	1.2
-15	32.54	26.13458	2.979489	0.080805	0.074885	0.92674	14.26218	1.2

-15	32.54	26.11722	2.972002	0.08197	0.075774	0.924411	14.22635	1.1
-15	32.54	26.08249	2.73241	0.09001	0.076499	0.849889	13.07947	1.0
-16	32.54	26.06512	2.874668	0.085849	0.076761	0.894137	13.76043	1.1
-16	32.54	26.0304	2.912104	0.085004	0.076995	0.905781	13.93963	1.1
-16	32.54	26.01303	2.65005	0.093198	0.076821	0.824271	12.68523	1.0
-17	32.54	25.9783	2.747384	0.08968	0.076635	0.854546	13.15115	1.0
-17	32.54	25.94357	2.799795	0.087442	0.076149	0.870848	13.40203	1.1
-17	32.54	25.89148	2.522767	0.098089	0.076968	0.784681	12.07595	1.0
-18	32.54	25.83939	2.657537	0.093393	0.077199	0.826601	12.72107	1.0
-18	32.54	25.76993	2.56769	0.096714	0.077241	0.798655	12.29099	1.0
-18	32.54	25.68311	2.590152	0.096235	0.077531	0.805641	12.39851	1.0
-18	32.54	25.59629	2.343072	0.105041	0.076553	0.728789	11.21579	0.9
-19	32.54	25.47474	2.425432	0.100227	0.075612	0.754407	11.61003	0.9
-19	32.54	25.35319	2.245738	0.106825	0.074619	0.698514	10.74987	0.9
-19	32.54	25.21428	2.110967	0.112592	0.073928	0.656595	10.10475	0.8
-20	32.54	25.07536	2.163378	0.10904	0.073373	0.672897	10.35563	0.9
-20	32.54	24.95381	2.095993	0.11013	0.071798	0.651938	10.03308	0.8
-20	32.54	24.84963	1.893837	0.119952	0.070659	0.589059	9.065397	0.8
-20	32.54	24.74544	1.878862	0.119486	0.069828	0.584401	8.993715	0.8
-21	32.54	24.65862	1.789015	0.126445	0.070361	0.556455	8.563637	0.7
-21	32.54	24.5718	1.744092	0.128615	0.069771	0.542483	8.3486	0.7
-21	32.54	24.48498	1.811477	0.123557	0.069617	0.563442	8.671157	0.8
-21	32.54	24.39816	1.744092	0.127837	0.069349	0.542482	8.3486	0.7
-22	32.54	24.3287	1.654245	0.133469	0.068674	0.514536	7.918521	0.7
-22	32.54	24.25925	1.661732	0.135524	0.070048	0.516865	7.95436	0.7
-22	32.54	24.20715	1.594347	0.139599	0.069228	0.495906	7.631802	0.7
-22	32.54	24.12033	1.616808	0.137407	0.069101	0.502892	7.739318	0.7
-23	32.54	24.05088	1.489525	0.14617	0.067721	0.463302	7.130041	0.6
-23	32.54	23.98142	1.549423	0.138113	0.066561	0.481932	7.41676	0.7
-23	32.54	23.91196	1.392191	0.15284	0.066184	0.433027	6.664124	0.6
-24	32.54	23.85987	1.437114	0.146359	0.065422	0.447	6.879161	0.6
-24	32.54	23.79041	1.407165	0.144451	0.063224	0.437685	6.735801	0.6
-24	32.54	23.70359	1.384704	0.142368	0.061317	0.430698	6.628285	0.7
-24	32.54	23.59941	1.414653	0.135773	0.059742	0.440014	6.771645	0.7
-25	32.54	23.47786	1.197522	0.154537	0.057562	0.372477	5.732285	0.6
-25	32.54	23.37367	1.264907	0.142493	0.056062	0.393437	6.054842	0.7
-25	32.54	23.30422	1.115162	0.15772	0.054707	0.34686	5.338045	0.6
-25	32.54	23.21739	1.242446	0.142344	0.055009	0.38645	5.947326	0.7
-26	32.54	23.1653	1.234958	0.139954	0.053759	0.384122	5.911483	0.7
-26	32.54	23.11321	1.100188	0.155352	0.053162	0.342202	5.266367	0.6
-26	32.54	23.04375	1.219984	0.137298	0.052099	0.379464	5.839805	0.7
-27	32.54	22.99166	1.242446	0.129193	0.049927	0.38645	5.947326	0.7
-27	32.54	22.93957	1.197522	0.132048	0.049185	0.372477	5.732285	0.7
-27	32.54	22.85275	1.160086	0.135491	0.048889	0.360833	5.553086	0.7
-27	32.54	22.78329	1.242446	0.126905	0.049042	0.38645	5.947326	0.7
-28	32.54	22.71383	1.205009	0.129129	0.048398	0.374806	5.768123	0.7
-28	32.54	22.64438	1.130137	0.137094	0.048191	0.351518	5.409727	0.7
-28	32.54	22.59228	0.942955	0.161382	0.047333	0.293297	4.513728	0.6
-28	32.54	22.54019	0.995366	0.154839	0.047938	0.309599	4.764608	0.6
-29	32.54	22.52283	1.017828	0.153819	0.048697	0.316585	4.872127	0.6
-29	32.54	22.4881	0.965417	0.1645	0.049397	0.300283	4.621248	0.6
-29	32.54	22.45337	0.935468	0.169929	0.049444	0.290968	4.477888	0.5
-29	32.54	22.436	0.860596	0.187783	0.050266	0.26768	4.119489	0.5
-30	32.54	22.41864	0.65844	0.248156	0.050823	0.204801	3.151811	0.4
-30	32.54	22.38391	0.718338	0.227098	0.050741	0.223432	3.438531	0.4
-30	32.54	22.34918	0.838134	0.192394	0.050156	0.260693	4.011969	0.5
-30	32.54	22.31446	0.838134	0.188976	0.049265	0.260693	4.011969	0.5
-31	32.54	22.27973	0.830647	0.195329	0.050466	0.258364	3.976129	0.5
-31	32.54	22.245	0.695876	0.232416	0.050305	0.216445	3.331011	0.4
-31	32.54	22.21027	0.650952	0.243474	0.049297	0.202472	3.115971	0.4
-32	32.54	22.17554	0.613516	0.25351	0.048377	0.190828	2.936772	0.4
-32	32.54	22.12345	0.583567	0.257782	0.046791	0.181513	2.793412	0.4
-32	32.54	22.05399	0.57608	0.256237	0.045914	0.179184	2.757572	0.4
-32	32.54	22.0019	0.583567	0.255404	0.046359	0.181513	2.793412	0.4
-33	32.54	21.93244	0.57608	0.260077	0.046602	0.179184	2.757572	0.4
-33	32.54	21.86299	0.673414	0.221981	0.046496	0.209459	3.223491	0.4
-33	32.54	21.81089	0.65844	0.234402	0.048006	0.204801	3.151811	0.4
-34	32.54	21.74144	0.628491	0.254087	0.04967	0.195486	3.008452	0.4
-34	32.54	21.67198	0.635978	0.265305	0.052481	0.197815	3.044292	0.4
-34	32.54	21.60252	0.598542	0.291062	0.054187	0.18617	2.865092	0.3
-34	32.54	21.49834	0.591054	0.305984	0.056252	0.183842	2.829252	0.3

-35	32.54	21.44625	0.568593	0.328647	0.058123	0.176855	2.721732	0.3
-35	32.54	21.37679	0.553618	0.351229	0.060481	0.172197	2.650053	0.3
-35	32.54	21.30733	0.523669	0.389727	0.063479	0.162882	2.506693	0.2
-36	32.54	21.23787	0.486233	0.447629	0.067698	0.151238	2.327493	0.2
-36	32.54	21.16842	0.426335	0.54767	0.072625	0.132607	2.040774	0.2
-36	32.54	21.0816	0.329	0.801255	0.081994	0.102332	1.574855	0.1
-36	32.54	21.01214	0.291564	1.029491	0.093363	0.090688	1.395656	0.1
-37	32.54	20.92532	0.299051	1.065408	0.099101	0.093017	1.431495	0.1
-37	32.54	20.8385	0.284077	1.159078	0.102415	0.088359	1.359816	0.1
-37	32.54	20.73431	0.284077	1.186357	0.104826	0.088359	1.359816	0.1
-38	32.54	20.63013	0.291564	1.16663	0.105799	0.090688	1.395656	0.1
-38	32.54	20.45649	0.306539	1.121956	0.106974	0.095346	1.467335	0.1
-38	32.54	20.24812	0.306539	1.149387	0.109589	0.095346	1.467335	0.1
-38	32.54	20.03975	0.306539	1.21589	0.11593	0.095346	1.467335	0.1
-39	32.54	19.8661	0.306539	1.192131	0.113665	0.095346	1.467335	0.1
-39	32.54	19.6751	0.201717	1.736076	0.108925	0.062742	0.965577	0.1
-39	32.54	19.44936	0.134332	2.503046	0.104584	0.041783	0.643017	0.0
-39	32.54	19.20626	0.231666	1.373969	0.099005	0.072057	1.108936	0.1
-40	32.54	18.99789	0.261615	1.299748	0.105764	0.081373	1.252296	0.1
-40	32.54	18.80689	0.246641	1.387286	0.106426	0.076715	1.180616	0.1
-40	32.54	18.63325	0.254128	1.24626	0.098509	0.079044	1.216456	0.1
-41	32.54	18.47697	0.19423	1.488578	0.08993	0.060413	0.929737	0.1
-41	32.54	18.35542	0.126844	2.034746	0.080278	0.039454	0.607177	0.0
-41	32.54	18.21651	0.066946	3.59598	0.074879	0.020823	0.320458	0.0
-5	57.58	27.83627	75.14167	0.138988	3.248434	23.37207	26.66462	0.0
-5	57.58	27.83627	77.65739	0.137267	3.315623	24.15455	27.55734	1.0
-5	57.58	27.83627	80.4127	0.135519	3.389531	25.01157	28.53508	1.0
-6	57.58	27.83627	82.92841	0.134533	3.470158	25.79406	29.4278	1.0
-6	57.58	27.81891	85.08474	0.13417	3.550784	26.46475	30.19299	1.0
-6	57.58	27.81891	85.56393	0.135691	3.611254	26.61381	30.36304	1.0
-6	57.58	27.81891	85.08474	0.137725	3.644848	26.46476	30.19299	1.0
-6	57.58	27.81891	83.76698	0.140407	3.658286	26.05489	29.72538	1.0
-6	57.58	27.80154	82.56902	0.142444	3.658286	25.68228	29.30027	1.0
-7	57.58	27.78418	81.73045	0.14417	3.665005	25.42144	29.0027	1.0
-7	57.58	27.76682	82.32943	0.143383	3.671724	25.60775	29.21525	1.0
-7	57.58	27.76682	84.00658	0.141035	3.685161	26.12941	29.8104	1.0
-8	57.58	27.74945	85.20454	0.139306	3.691881	26.50203	30.23551	1.0
-8	57.58	27.73209	86.4025	0.137124	3.685161	26.87462	30.66061	1.0
-8	57.58	27.71472	88.43903	0.134699	3.705318	27.50807	31.38329	1.0
-9	57.58	27.67999	90.83495	0.132811	3.75235	28.25331	32.2335	1.0
-9	57.58	27.67999	95.02782	0.129679	3.832977	29.55745	33.72137	1.1
-9	57.58	27.66263	97.66334	0.129497	3.93376	30.37721	34.65661	1.1
-9	57.58	27.6279	100.778	0.128924	4.041262	31.34599	35.76187	1.1
-10	57.58	27.6279	104.3719	0.12821	4.162202	32.46384	37.03719	1.1
-10	57.58	27.61054	109.7627	0.12644	4.316737	34.14059	38.95016	1.1
-10	57.58	27.61054	112.0389	0.12792	4.457834	34.84858	39.75789	1.1
-10	57.58	27.59317	110.9607	0.131694	4.54518	34.51322	39.37528	1.0
-10	57.58	27.57581	109.6429	0.134262	4.578772	34.10334	38.90765	1.0
-11	57.58	27.57581	111.6795	0.132394	4.598929	34.7368	39.63035	1.0
-11	57.58	27.55844	112.3983	0.1327	4.639244	34.96036	39.88543	1.0
-11	57.58	27.54108	116.4713	0.129358	4.686276	36.22724	41.33076	1.1
-11	57.58	27.52372	121.7423	0.125354	4.746743	37.86673	43.20122	1.1
-12	57.58	27.52372	119.9454	0.128132	4.780339	37.30781	42.56357	1.1
-12	57.58	27.50635	119.9454	0.128132	4.780339	37.30781	42.56357	1.1
-12	57.58	27.50635	120.9038	0.127295	4.787057	37.60589	42.90367	1.1
-12	57.58	27.48899	118.3881	0.13073	4.813932	36.82341	42.01095	1.1
-13	57.58	27.48899	115.2734	0.134637	4.827371	35.85463	40.90568	1.0
-13	57.58	27.47162	112.6378	0.137788	4.827371	35.03487	39.97041	1.0
-13	57.58	27.47162	113.2368	0.136677	4.813932	35.22117	40.18297	1.0
-13	57.58	27.47162	118.0287	0.131494	4.827371	36.71164	41.88342	1.0
-14	57.58	27.45426	121.6226	0.128674	4.867685	37.82948	43.15874	1.1
-14	57.58	27.45426	128.5707	0.123905	4.955031	39.99067	45.62433	1.1
-14	57.58	27.45426	135.6387	0.120156	5.069252	42.18906	48.13247	1.1
-14	57.58	27.45426	142.5869	0.117179	5.196912	44.35024	50.59809	1.2
-15	57.58	27.45426	140.1909	0.120568	5.25738	43.60499	49.74785	1.1
-15	57.58	27.45426	137.3158	0.103336	4.413537	42.71071	48.7276	1.3
-15	57.58	27.41953	130.7271	0.109877	4.46774	40.66136	46.38955	1.2
-15	57.58	27.36744	125.8154	0.115165	4.50681	39.1336	44.64659	1.2
-16	57.58	27.28062	124.6175	0.116928	4.532229	38.76102	44.22151	1.2
-16	57.58	27.15907	123.4195	0.117817	4.522811	38.38841	43.79639	1.2
-16	57.58	27.03752	120.9038	0.119152	4.480829	37.60593	42.90367	1.2

-16	57.58	26.91597	119.2266	0.118857	4.407722	37.08424	42.3085	1.2
-17	57.58	26.81178	117.5495	0.118156	4.320082	36.56259	41.71337	1.2
-17	57.58	26.7076	116.7109	0.115747	4.20183	36.30175	41.41579	1.2
-17	57.58	26.60341	114.4348	0.115257	4.102434	35.59379	40.60809	1.2
-18	57.58	26.51659	109.8825	0.116739	3.989873	34.17787	38.99267	1.2
-18	57.58	26.44714	107.4866	0.116006	3.87838	33.43264	38.14247	1.2
-18	57.58	26.39504	108.445	0.112755	3.803291	33.73072	38.48257	1.2
-18	57.58	26.34295	108.445	0.111168	3.74977	33.73072	38.48257	1.2
-19	57.58	26.29086	108.2054	0.110521	3.7197	33.6562	38.39754	1.2
-19	57.58	26.23877	108.2054	0.110402	3.715726	33.65621	38.39754	1.2
-19	57.58	26.20404	107.4866	0.111573	3.730178	33.43263	38.14247	1.2
-19	57.58	26.15194	107.7262	0.111989	3.752443	33.50715	38.22749	1.2
-20	57.58	26.09985	107.846	0.112642	3.778518	33.54442	38.27001	1.2
-20	57.58	26.0304	105.5699	0.11525	3.7844	32.83644	37.46231	1.2
-20	57.58	25.9783	102.575	0.118607	3.784152	31.90491	36.39955	1.2
-21	57.58	25.90885	100.4186	0.120602	3.766921	31.23421	35.63434	1.1
-21	57.58	25.83939	97.30395	0.123183	3.728196	30.26543	34.52908	1.1
-21	57.58	25.7873	94.66843	0.12451	3.666282	29.44566	33.59384	1.1
-22	57.58	25.70048	91.67353	0.126466	3.606067	28.51414	32.53108	1.1
-22	57.58	25.61365	88.79842	0.128149	3.539456	27.61987	31.51082	1.1
-22	57.58	25.52683	85.68372	0.130002	3.464697	26.65107	30.40555	1.1
-22	57.58	25.44001	83.5274	0.130225	3.383291	25.98037	29.64036	1.1
-23	57.58	25.35319	82.68882	0.128789	3.312383	25.71954	29.34278	1.1
-23	57.58	25.28373	82.92841	0.126349	3.259056	25.79405	29.4278	1.1
-23	57.58	25.19691	83.5274	0.123882	3.21851	25.98037	29.64036	1.1
-24	57.58	25.12746	82.68882	0.12349	3.176094	25.71953	29.34278	1.1
-24	57.58	25.058	80.77209	0.124884	3.137498	25.12334	28.66262	1.1
-24	57.58	25.00591	78.01678	0.127154	3.085563	24.26635	27.68487	1.1
-24	57.58	24.93645	75.02187	0.12959	3.023956	23.33481	26.6221	1.1
-25	57.58	24.84963	72.26656	0.131905	2.964929	22.47779	25.64436	1.0
-25	57.58	24.78017	70.23003	0.132917	2.903474	21.84435	24.92168	1.0
-25	57.58	24.69335	68.79247	0.133145	2.848938	21.39721	24.41155	1.0
-26	57.58	24.60653	68.19349	0.131957	2.798928	21.2109	24.199	1.0
-26	57.58	24.50235	67.47472	0.130967	2.74864	20.98734	23.94394	1.0
-26	57.58	24.3808	66.63615	0.130198	2.698557	20.72652	23.64637	1.1
-26	57.58	24.27661	65.67777	0.129561	2.646717	20.42842	23.30628	1.1
-26	57.58	24.17243	64.12042	0.13041	2.600898	19.94401	22.75364	1.1
-27	57.58	24.0856	62.68287	0.131146	2.55693	19.49688	22.24351	1.0
-27	57.58	23.99878	61.36512	0.13176	2.514909	19.08701	21.7759	1.0
-27	57.58	23.92933	60.28695	0.132013	2.47546	18.75165	21.3933	1.0
-28	57.58	23.85987	59.08899	0.132928	2.443082	18.37904	20.9682	1.0
-28	57.58	23.77305	58.13062	0.134043	2.423625	18.08095	20.62811	1.0
-28	57.58	23.70359	56.69307	0.136354	2.404443	17.63381	20.11798	1.0
-28	57.58	23.63413	55.37531	0.13845	2.384647	17.22394	19.65037	1.0
-29	57.58	23.56468	53.81796	0.141149	2.362772	16.73955	19.09773	1.0
-29	57.58	23.49522	52.14082	0.1439	2.333752	16.21789	18.50258	1.0
-29	57.58	23.49522	52.14082	0.144095	2.33691	16.21788	18.50258	1.0
-30	57.58	23.28685	46.6302	0.151746	2.200896	14.50385	16.5471	0.9
-31	57.58	23.23476	45.55203	0.1526	2.162106	14.1685	16.1645	0.9
-31	57.58	23.18267	44.35407	0.154313	2.128888	13.79589	15.73939	0.9
-31	57.58	23.14794	43.15611	0.15599	2.093891	13.42328	15.31429	0.9
-32	57.58	23.09584	41.95815	0.157756	2.058814	13.05066	14.88918	0.9
-32	57.58	23.02639	40.52059	0.160239	2.019574	12.60353	14.37905	0.9
-32	57.58	22.9743	39.44243	0.162275	1.990815	12.26818	13.99646	0.8
-33	57.58	22.9222	38.60386	0.163461	1.962727	12.00735	13.69889	0.8
-33	57.58	22.85275	37.64548	0.166568	1.950385	11.70925	13.3588	0.8
-33	57.58	22.78329	36.92671	0.169501	1.946837	11.48569	13.10374	0.8
-33	57.58	22.7312	36.32773	0.171881	1.942153	11.29938	12.89118	0.8
-34	57.58	22.6791	35.60895	0.175731	1.946363	11.07581	12.63612	0.8
-34	57.58	22.62701	34.77038	0.180864	1.956035	10.81498	12.33854	0.8
-34	57.58	22.57492	34.05161	0.184962	1.959012	10.59141	12.08348	0.7
-35	57.58	22.52283	32.85364	0.192488	1.966998	10.21879	11.65837	0.7
-35	57.58	22.47073	31.41609	0.201621	1.970171	9.771661	11.14825	0.7
-35	57.58	22.41864	29.61915	0.213553	1.967412	9.212739	10.51059	0.6
-36	57.58	22.38391	27.46282	0.229454	1.960004	8.542034	9.745399	0.6
-36	57.58	22.34918	25.18669	0.249726	1.956372	7.834067	8.937696	0.5
-36	57.58	22.31446	23.38226	0.269033	1.95663	7.27282	8.29738	0.5
-36	57.58	22.27973	21.95968	0.287655	1.964783	6.830341	7.792566	0.5
-37	57.58	22.245	20.44726	0.313702	1.995116	6.359916	7.255872	0.4
-37	57.58	22.19291	19.50386	0.332023	2.014213	6.066482	6.921099	0.4
-37	57.58	22.14081	19.22684	0.333918	1.996936	5.980316	6.822796	0.4

-38	57.58	22.07136	19.33914	0.326689	1.965114	6.015248	6.862647	0.4
-38	57.58	22.01926	19.08458	0.327794	1.945805	5.936067	6.772314	0.4
-38	57.58	21.94981	18.85247	0.330127	1.935821	5.863873	6.689948	0.4
-38	57.58	21.86299	18.44816	0.335948	1.927705	5.738115	6.546476	0.4
-39	57.58	21.68934	18.06631	0.341817	1.920787	5.619346	6.410973	0.4
-39	57.58	21.48097	17.53472	0.354602	1.933997	5.453998	6.222334	0.4
-39	57.58	21.30733	16.53142	0.379678	1.952278	5.141934	5.866305	0.4
-40	57.58	21.15105	15.58054	0.411429	1.993858	4.846172	5.528878	0.3
-40	57.58	20.99478	16.44158	0.399572	2.043407	5.113987	5.834425	0.3
-40	57.58	20.87323	16.83091	0.399095	2.089295	5.235087	5.972582	0.3
-40	57.58	20.75168	16.10465	0.423574	2.121762	5.009191	5.714863	0.3
-41	57.58	20.61276	15.06392	0.458228	2.14702	4.685482	5.345551	0.3
-41	57.58	20.47385	13.98576	0.497561	2.164454	4.35013	4.962958	0.3
-41	57.58	20.3523	13.33436	0.524669	2.176073	4.147521	4.731803	0.3
-42	57.58	20.23075	12.99744	0.536826	2.170237	4.042724	4.612244	0.3
-42	57.58	20.14393	12.65302	0.546806	2.152007	3.935597	4.490024	0.3
-42	57.58	20.05711	12.32359	0.556701	2.133905	3.833129	4.373123	0.2
-42	57.58	19.98765	11.87435	0.571604	2.111162	3.693398	4.213707	0.2
-43	57.58	19.90083	11.35024	0.590002	2.08293	3.530379	4.027723	0.2
-43	57.58	19.83138	10.75126	0.616121	2.060353	3.344072	3.81517	0.2
-43	57.58	19.77928	10.44428	0.636728	2.068469	3.24859	3.706235	0.2
-44	57.58	19.70983	10.32449	0.659226	2.116993	3.211329	3.663727	0.2
-44	57.58	19.623	10.1972	0.695867	2.207108	3.171739	3.618557	0.2
-44	57.58	19.53618	10.05495	0.744513	2.328456	3.127491	3.568079	0.2
-45	57.58	19.44936	9.80038	0.808019	2.463092	3.04831	3.477742	0.2
-45	57.58	19.36254	9.403555	0.897767	2.625863	2.924882	3.336926	0.2
-45	57.58	19.27572	9.029192	1.013551	2.846496	2.808439	3.20408	0.1
-45	57.58	19.22363	8.594932	1.166351	3.118085	2.673368	3.04998	0.1
-46	57.58	19.1889	8.175645	1.261238	3.207268	2.542952	2.901192	0.1
-46	57.58	19.13681	7.778821	1.282166	3.102231	2.419524	2.760376	0.1
-46	57.58	19.08471	7.39697	1.274384	2.932044	2.300754	2.624873	0.1
-47	57.58	19.03262	7.082506	1.245074	2.742825	2.202942	2.513283	0.1
-47	57.58	18.9458	6.805477	1.217659	2.577512	2.116776	2.414977	0.1
-47	57.58	18.82425	6.55091	1.19491	2.434742	2.037595	2.324642	0.1
-48	57.58	18.66797	6.318806	1.148398	2.257063	1.965401	2.242278	0.1
-48	57.58	18.52906	6.071726	1.110592	2.097408	1.888549	2.1546	0.1
-48	57.58	18.37278	5.779723	1.078955	1.939664	1.797724	2.05098	0.1
-48	57.58	18.18178	5.40536	1.071048	1.800735	1.681283	1.918135	0.1
-49	57.58	17.99077	5.10587	1.058125	1.680439	1.588129	1.811858	0.1
-49	57.58	17.81713	4.731507	1.065273	1.56775	1.471688	1.679013	0.1
-49	57.58	17.62612	4.244835	1.134271	1.497594	1.320314	1.506313	0.1
-50	57.58	17.46984	3.855498	1.197281	1.435796	1.199214	1.368154	0.1
-50	57.58	17.31357	3.63088	1.216615	1.373983	1.129349	1.288447	0.1
-50	57.58	17.20938	3.488623	1.201155	1.303374	1.085101	1.237965	0.1
-51	57.58	17.1052	3.383801	1.154889	1.215517	1.052497	1.200769	0.1
-51	57.58	17.03574	3.234056	1.120969	1.127606	1.005921	1.14763	0.1
-51	57.58	16.98365	2.964515	1.133741	1.045403	0.922083	1.051982	0.1
-51	57.58	16.91419	2.844718	1.095904	0.969679	0.884821	1.009471	0.1
-52	57.58	16.8621	2.575177	1.127596	0.903185	0.800983	0.913822	0.1
-52	57.58	16.81001	2.477843	1.091334	0.841101	0.770709	0.879282	0.1
-52	57.58	16.75791	2.245738	1.121433	0.783337	0.698514	0.796918	0.1
-53	57.58	16.72318	2.18584	1.075786	0.73141	0.679884	0.775663	0.1
-53	57.58	16.68846	2.013633	1.091186	0.683432	0.626321	0.714554	0.1
-53	57.58	16.65373	1.863888	1.103666	0.639844	0.579744	0.661415	0.1
-54	57.58	16.63636	1.796503	1.069519	0.597631	0.558784	0.637503	0.1
-54	57.58	16.60163	1.654245	1.083481	0.55749	0.514536	0.587022	0.1
-54	57.58	16.58427	1.519474	1.099034	0.519423	0.472617	0.539197	0.1
-54	57.58	16.56691	1.377216	1.126063	0.482371	0.428369	0.488716	0.1
-55	57.58	16.54954	1.25742	1.144602	0.447663	0.391108	0.446205	0.1
-55	57.58	16.54954	1.242446	1.069534	0.413322	0.38645	0.440892	0.1
-55	57.58	16.53218	1.182548	1.041038	0.382914	0.36782	0.419637	0.1
-56	57.58	16.51481	1.100188	1.0319	0.353119	0.342202	0.39041	0.1
-56	57.58	16.51481	1.010341	1.037476	0.326034	0.314257	0.358528	0.1
-56	57.58	16.49745	0.913006	1.057744	0.30038	0.283982	0.323988	0.1
-57	57.58	16.49745	0.87557	1.01092	0.275311	0.272337	0.310703	0.1
-57	57.58	16.49745	0.815672	1.002333	0.254298	0.253707	0.289448	0.1
-57	57.58	16.49745	0.755774	0.988222	0.232307	0.235076	0.268192	0.1
-57	57.58	16.49745	0.703363	0.97028	0.212272	0.218774	0.249594	0.1
-58	57.58	16.49745	0.65844	0.952863	0.195147	0.204801	0.233653	0.1
-58	57.58	16.49745	0.606029	0.953719	0.179775	0.188499	0.215054	0.1
-58	57.58	16.49745	0.553618	0.966678	0.166459	0.172197	0.196456	0.1

-59	57.58	16.48009	0.516182	0.941424	0.151149	0.160553	0.183171	0.1
-59	57.58	16.48009	0.448797	0.970103	0.13542	0.139594	0.159259	0.1
-59	57.58	16.48009	0.448797	0.8775	0.122493	0.139594	0.159259	0.2
-60	57.58	16.46272	0.441309	0.786358	0.107939	0.137265	0.156602	0.2
-60	57.58	16.44536	0.358949	0.840163	0.093802	0.111648	0.127376	0.2
-60	57.58	16.42799	0.41136	0.633345	0.081036	0.127949	0.145974	0.2
-61	57.58	16.41063	0.366437	0.621455	0.070831	0.113976	0.130033	0.2
-61	57.58	16.39326	0.306539	0.655544	0.062503	0.095346	0.108778	0.2
-61	57.58	16.3759	0.269102	0.661979	0.055409	0.083702	0.095493	0.2
-62	57.58	16.3759	0.19423	0.820281	0.049556	0.060413	0.068924	0.2
-4	72.24	27.73209	484.8443	0.158746	23.93979	150.806	21.5469	0.7
-4	72.24	27.73209	404.3414	0.176889	22.24666	125.7663	17.96928	0.6
-5	72.24	27.71472	413.925	0.160534	20.66834	128.7473	18.39518	0.7
-5	72.24	27.71472	574.931	0.11076	19.80691	178.8266	25.55043	1.0
-5	72.24	27.67999	406.2581	0.142007	17.94433	126.3625	18.05446	0.8
-6	72.24	27.66263	431.1757	0.124555	16.70446	134.1129	19.16182	0.9
-6	72.24	27.64527	406.2581	0.124905	15.78325	126.3625	18.05446	0.9
-6	72.24	27.6279	490.5945	0.100611	15.35274	152.5945	21.80244	1.1
-6	72.24	27.6279	458.01	0.102553	14.60964	142.4594	20.35436	1.1
-7	72.24	27.59317	446.5096	0.104782	14.55239	138.8824	19.84327	1.1
-7	72.24	27.59317	398.5912	0.114277	14.16775	123.9778	17.71374	1.0
-7	72.24	27.57581	328.6302	0.131848	13.47715	102.2171	14.60461	0.8
-8	72.24	27.55844	369.2411	0.112075	12.87163	114.8488	16.40939	1.0
-8	72.24	27.54108	423.8681	0.094879	12.50881	131.8399	18.83706	1.2
-8	72.24	27.54108	415.8418	0.09972	12.8981	129.3434	18.48037	1.1
-9	72.24	27.52372	540.4297	0.081104	13.63317	168.0953	24.01716	1.4
-9	72.24	27.52372	452.2598	0.097996	13.78525	140.6709	20.09881	1.1
-9	72.24	27.50635	344.3235	0.1234	13.21591	107.0984	15.30203	0.9
-10	72.24	27.50635	357.1417	0.116881	12.98378	111.0853	15.87168	0.9
-10	72.24	27.48899	428.061	0.098126	13.06489	133.1441	19.0234	1.1
-10	72.24	27.48899	358.5793	0.115941	12.93122	111.5325	15.93557	1.0
-11	72.24	27.48899	380.9811	0.108035	12.80221	118.5004	16.93113	1.0
-11	72.24	27.48899	411.4093	0.100421	12.85029	127.9647	18.28338	1.1
-11	72.24	27.47162	403.2632	0.103724	13.01023	125.431	17.92136	1.1
-12	72.24	27.45426	397.1536	0.108188	13.36457	123.5307	17.64985	1.0
-12	72.24	27.4369	373.434	0.113161	13.14393	116.1529	16.59573	1.0
-12	72.24	27.41953	332.4637	0.123543	12.77548	103.4095	14.77497	0.9
-13	72.24	27.4369	341.4484	0.118265	12.56023	106.2041	15.17426	0.9
-13	72.24	27.4369	348.9955	0.113112	12.27848	108.5516	15.50966	1.0
-13	72.24	27.40217	346.0007	0.110928	11.93807	107.62	15.37657	1.0
-14	72.24	27.40217	313.2963	0.120803	11.77192	97.44767	13.92316	0.9
-14	72.24	27.3848	316.0516	0.117634	11.56395	98.30473	14.04561	0.9
-14	72.24	27.36744	332.3439	0.109459	11.31504	103.3722	14.76965	1.0
-15	72.24	27.35007	337.016	0.106257	11.13847	104.8254	14.97728	1.0
-15	72.24	27.33271	313.4161	0.11141	10.8608	97.48496	13.92848	1.0
-15	72.24	27.31535	296.6447	0.113835	10.50338	92.26838	13.18315	1.0
-16	72.24	27.29798	304.7908	0.108924	10.32623	94.80211	13.54517	1.0
-16	72.24	27.26325	310.3014	0.106925	10.31998	96.51618	13.79006	1.0
-16	72.24	27.24589	305.9888	0.108689	10.34449	95.17475	13.59841	1.0
-17	72.24	27.22853	309.1035	0.108336	10.4158	96.14358	13.73683	1.0
-17	72.24	27.1938	301.3167	0.113404	10.62841	93.72153	13.39077	1.0
-17	72.24	27.17643	295.3269	0.117615	10.80393	91.85849	13.12458	0.9
-18	72.24	27.1417	278.795	0.124664	10.81039	86.71638	12.38989	0.9
-18	72.24	27.12434	277.5971	0.12473	10.76969	86.34382	12.33665	0.9
-18	72.24	27.07225	282.1493	0.123842	10.86831	87.75971	12.53896	0.9
-19	72.24	27.03752	289.3371	0.124035	11.16256	89.99543	12.85839	0.9
-19	72.24	26.98543	270.6489	0.135517	11.40819	84.18264	12.02787	0.8
-19	72.24	26.93333	252.0805	0.145551	11.41227	78.40714	11.20267	0.8
-19	72.24	26.86388	246.2105	0.147447	11.29169	76.58129	10.94181	0.8
-20	72.24	26.75969	243.3354	0.147211	11.14193	75.68702	10.81403	0.8
-20	72.24	26.65551	229.9182	0.153469	10.97512	71.51373	10.21776	0.7
-20	72.24	26.53396	232.6735	0.149203	10.79792	72.37079	10.34021	0.7
-21	72.24	26.41241	240.9395	0.142299	10.66411	74.94181	10.70756	0.8
-21	72.24	26.27349	232.0746	0.145576	10.5083	72.18446	10.31359	0.8
-21	72.24	26.13458	228.2411	0.145074	10.29908	70.99212	10.14323	0.8
-22	72.24	25.9783	221.2929	0.14674	10.10027	68.83094	9.834447	0.8
-22	72.24	25.85675	214.5843	0.149269	9.962827	66.74434	9.536311	0.7
-22	72.24	25.75257	209.5529	0.151095	9.848274	65.17935	9.312711	0.7
-23	72.24	25.61365	206.0788	0.151909	9.737155	64.09873	9.158319	0.7
-23	72.24	25.4921	197.8129	0.156557	9.632598	61.5277	8.790976	0.7
-23	72.24	25.35319	194.4586	0.158682	9.597787	60.48441	8.641908	0.7

-24	72.24	25.23164	192.0627	0.1609	9.612048	59.73919	8.535432	0.7
-24	72.24	25.09273	188.8282	0.16222	9.527674	58.73311	8.391688	0.7
-24	72.24	24.98854	181.281	0.166581	9.392782	56.38567	8.056284	0.7
-25	72.24	24.8149	175.0516	0.16945	9.226233	54.44805	7.779444	0.7
-25	72.24	24.64126	170.3796	0.171624	9.095198	52.99488	7.571816	0.6
-25	72.24	24.48498	166.6659	0.173389	8.988434	51.83976	7.406776	0.6
-25	72.24	24.34607	161.9938	0.176826	8.909672	50.38655	7.199144	0.6
-26	72.24	24.22452	160.7959	0.176724	8.838681	50.01395	7.145908	0.6
-26	72.24	24.12033	154.4467	0.182393	8.762005	48.0391	6.863744	0.6
-26	72.24	23.99878	148.2173	0.187068	8.624115	46.10152	6.586904	0.6
-27	72.24	23.8946	146.1808	0.185666	8.44188	45.46805	6.496401	0.6
-27	72.24	23.79041	144.7432	0.182735	8.226904	45.02093	6.432512	0.6
-27	72.24	23.68623	144.5036	0.178702	8.032033	44.94642	6.421864	0.6
-27	72.24	23.58204	144.9828	0.174674	7.877006	45.09547	6.44316	0.6
-28	72.24	23.46049	147.3787	0.171157	7.845949	45.84068	6.549636	0.6
-28	72.24	23.35631	147.3787	0.171367	7.855561	45.84068	6.549636	0.6
-28	72.24	23.23476	140.6701	0.179126	7.837465	43.75404	6.2515	0.6
-29	72.24	23.14794	131.8052	0.188551	7.729962	40.99668	5.857537	0.6
-29	72.24	23.06112	125.3362	0.194444	7.580308	38.98459	5.570049	0.6
-29	72.24	22.9743	119.9454	0.198514	7.406139	37.30784	5.330477	0.6
-29	72.24	22.88747	115.8723	0.200449	7.224375	36.04094	5.149465	0.6
-30	72.24	22.81802	112.2785	0.202378	7.06765	34.9231	4.989753	0.5
-30	72.24	22.74856	108.5648	0.205638	6.943994	33.76798	4.824713	0.5
-30	72.24	22.69647	103.2938	0.213367	6.85517	32.12848	4.590465	0.5
-31	72.24	22.62701	91.07455	0.238668	6.760943	28.32784	4.047431	0.5
-31	72.24	22.57492	87.36087	0.24642	6.695901	27.17274	3.882392	0.4
-31	72.24	22.52283	87.36087	0.246363	6.694345	27.17273	3.882392	0.4
-32	72.24	22.47073	84.12637	0.257764	6.744838	26.16668	3.738648	0.4
-32	72.24	22.41864	81.01167	0.267627	6.743619	25.19788	3.600228	0.4
-32	72.24	22.38391	79.09494	0.271019	6.667514	24.60169	3.515047	0.4
-32	72.24	22.34918	77.41779	0.270769	6.520128	24.08003	3.440513	0.4
-33	72.24	22.29709	75.26146	0.269762	6.314954	23.40933	3.344684	0.4
-33	72.24	22.26236	73.46452	0.266321	6.085536	22.85041	3.264827	0.4
-33	72.24	22.245	71.18839	0.266118	5.892506	22.14244	3.163673	0.4
-33	72.24	22.21027	70.94881	0.261909	5.77978	22.06792	3.153026	0.4
-34	72.24	22.15818	71.90717	0.255256	5.709066	22.366	3.195617	0.4
-34	72.24	22.08872	71.30819	0.255468	5.666207	22.1797	3.168997	0.4
-34	72.24	22.0019	68.55288	0.265478	5.660703	21.32268	3.046549	0.4
-35	72.24	21.91508	64.71941	0.282896	5.694797	20.13033	2.876186	0.4
-35	72.24	21.81089	60.40675	0.306417	5.757234	18.78892	2.684528	0.4
-35	72.24	21.72407	57.89103	0.323522	5.825477	18.00643	2.572727	0.3
-35	72.24	21.67198	57.17225	0.329451	5.858572	17.78286	2.540784	0.3
-36	72.24	21.61989	56.33368	0.334263	5.856957	17.52202	2.503517	0.3
-36	72.24	21.56779	56.09409	0.334164	5.830328	17.4475	2.49287	0.3
-36	72.24	21.5157	54.65653	0.340665	5.79144	17.00037	2.428983	0.3
-36	72.24	21.46361	52.62	0.3505	5.73661	16.36692	2.338478	0.3
-37	72.24	21.41152	50.46367	0.362792	5.694456	15.69622	2.242649	0.3
-37	72.24	21.35942	49.38551	0.37141	5.705186	15.36087	2.194735	0.3
-37	72.24	21.28997	48.78653	0.376825	5.718159	15.17456	2.168115	0.3
-38	72.24	21.23787	48.06775	0.382694	5.721659	14.95099	2.136172	0.3
-38	72.24	21.18578	46.74999	0.393514	5.722134	14.54112	2.07761	0.3
-38	72.24	21.11633	45.91142	0.400724	5.722449	14.28029	2.040343	0.3
-38	72.24	21.0816	44.95305	0.411213	5.749656	13.9822	1.997752	0.3
-39	72.24	21.0295	43.99468	0.423572	5.7962	13.68411	1.955161	0.3
-39	72.24	20.97741	43.03631	0.43844	5.868958	13.38601	1.912571	0.3
-39	72.24	20.94268	42.07794	0.457594	5.988954	13.08792	1.86998	0.2
-40	72.24	20.89059	41.23937	0.475687	6.101689	12.8271	1.832713	0.2
-40	72.24	20.85586	40.04141	0.49614	6.17916	12.45448	1.779475	0.2
-40	72.24	20.80377	38.60386	0.521102	6.257045	12.00734	1.715589	0.2
-40	72.24	20.75168	37.2861	0.546294	6.335626	11.59747	1.657026	0.2
-41	72.24	20.68222	35.96834	0.57258	6.405791	11.1876	1.598464	0.2
-41	72.24	20.61276	35.12977	0.592144	6.47022	10.92677	1.561197	0.2
-41	72.24	20.54331	34.29119	0.607176	6.476095	10.66593	1.52393	0.2
-42	72.24	20.49121	33.57242	0.613657	6.408029	10.44236	1.491987	0.2
-42	72.24	20.42176	32.73384	0.621461	6.327426	10.18154	1.45472	0.2
-42	72.24	20.33494	31.53588	0.644151	6.318428	9.808923	1.401482	0.2
-42	72.24	20.24812	30.21813	0.67575	6.351402	9.399044	1.34292	0.2
-43	72.24	20.16129	29.13996	0.70849	6.421533	9.063692	1.295005	0.2
-43	72.24	20.05711	28.30139	0.75864	6.67821	8.802867	1.257738	0.1
-43	72.24	19.95292	27.46282	0.834099	7.124903	8.542038	1.220471	0.1
-44	72.24	19.83138	26.74404	0.933718	7.767101	8.318469	1.188528	0.1

-44	72.24	19.70983	25.66588	1.05668	8.435595	7.983112	1.140614	0.1
-44	72.24	19.58828	24.58771	1.198051	9.162413	7.647766	1.092699	0.1
-45	72.24	19.46673	23.23252	1.407382	10.17009	7.226245	1.032473	0.1
-45	72.24	19.29309	22.02707	1.641439	11.24599	6.851301	0.978902	0.1
-45	72.24	19.13681	20.57454	1.911918	12.23533	6.399505	0.91435	0.1
-46	72.24	18.9458	19.42899	2.074801	12.53842	6.043194	0.863441	0.1
-46	72.24	18.77216	18.6578	2.061938	11.9661	5.803326	0.829169	0.1
-46	72.24	18.63325	17.77431	1.958685	10.82863	5.52852	0.789906	0.1
-46	72.24	18.47697	16.73358	1.842153	9.588059	5.204811	0.743655	0.1
-47	72.24	18.28596	15.74526	1.731478	8.47975	4.897405	0.699733	0.1
-47	72.24	18.12968	14.75694	1.659947	7.619154	4.589998	0.655811	0.1
-47	72.24	17.99077	14.08309	1.581201	6.926299	4.380404	0.625865	0.1
-48	72.24	17.86922	13.56647	1.487522	6.276917	4.219714	0.602906	0.1
-48	72.24	17.7824	13.31939	1.346751	5.579405	4.142863	0.591925	0.1
-48	72.24	17.69558	12.93005	1.21407	4.882702	4.021763	0.574623	0.1
-49	72.24	17.59139	12.51825	1.096194	4.268228	3.893679	0.556322	0.1
-49	72.24	17.48721	12.21128	0.992246	3.768745	3.798196	0.54268	0.1
-49	72.24	17.38302	11.68717	0.926263	3.367131	3.635177	0.519388	0.1
-49	72.24	17.27884	11.13311	0.881854	3.05372	3.462843	0.494765	0.1
-50	72.24	17.15729	10.56408	0.854227	2.806864	3.285852	0.469477	0.1
-50	72.24	17.0531	10.05495	0.836374	2.615753	3.127491	0.446851	0.1
-50	72.24	16.94892	9.688071	0.815551	2.457564	3.013378	0.430546	0.1
-51	72.24	16.84473	9.351145	0.803104	2.335894	2.90858	0.415573	0.1
-51	72.24	16.74055	9.029192	0.78921	2.216448	2.80844	0.401265	0.1
-51	72.24	16.67109	8.65483	0.783218	2.108421	2.691999	0.384628	0.1
-51	72.24	16.60163	8.228056	0.785244	2.009639	2.559255	0.365662	0.1
-52	72.24	16.53218	7.876155	0.777475	1.904657	2.449799	0.350023	0.1
-52	72.24	16.48009	7.651537	0.756589	1.800631	2.379934	0.340041	0.1
-52	72.24	16.42799	7.426919	0.737481	1.703632	2.310069	0.330059	0.2
-53	72.24	16.35854	7.015121	0.735384	1.604595	2.181983	0.311758	0.2
-53	72.24	16.30644	6.71563	0.727374	1.51936	2.088829	0.298448	0.2
-53	72.24	16.27172	6.326293	0.725231	1.427059	1.96773	0.281146	0.2
-54	72.24	16.21962	5.95193	0.734474	1.359723	1.851289	0.264509	0.2
-54	72.24	16.18489	5.65244	0.734739	1.291771	1.758135	0.251199	0.2
-54	72.24	16.15017	5.375411	0.731282	1.22268	1.671968	0.238888	0.2
-55	72.24	16.11544	5.210691	0.711316	1.152853	1.620733	0.231568	0.2
-55	72.24	16.09807	5.068434	0.688933	1.086092	1.576486	0.225246	0.2
-55	72.24	16.08071	4.821354	0.680701	1.020802	1.499634	0.214265	0.2
-55	72.24	16.06334	4.64166	0.66619	0.961807	1.443742	0.206279	0.2
-56	72.24	16.04598	4.304734	0.671753	0.89944	1.338945	0.191306	0.2
-56	72.24	16.04598	4.147501	0.651925	0.841009	1.290039	0.184319	0.2
-56	72.24	16.02862	3.982781	0.63588	0.787731	1.238804	0.176998	0.2
-57	72.24	16.02862	3.71324	0.639916	0.739082	1.154967	0.16502	0.2
-57	72.24	16.02862	3.623393	0.614792	0.692883	1.12702	0.161027	0.2
-57	72.24	16.02862	3.406263	0.60977	0.646042	1.059484	0.151377	0.2
-58	72.24	16.01125	3.278979	0.589892	0.601627	1.019894	0.145721	0.2
-58	72.24	16.01125	3.121747	0.580264	0.56343	0.970988	0.138733	0.2
-58	72.24	16.01125	2.994464	0.564124	0.525423	0.931398	0.133077	0.2
-59	72.24	16.01125	2.799795	0.561706	0.489161	0.870848	0.124425	0.2
-59	72.24	16.01125	2.792308	0.51937	0.451083	0.868519	0.124093	0.2
-59	72.24	16.01125	2.642563	0.511145	0.420132	0.821943	0.117438	0.2
-60	72.24	16.01125	2.612614	0.480761	0.390679	0.812627	0.116107	0.2
-60	72.24	16.01125	2.492817	0.471322	0.365447	0.775366	0.110783	0.2
-60	72.24	15.99389	2.305636	0.476321	0.341591	0.717145	0.102464	0.2
-61	72.24	15.99389	2.2682	0.457623	0.322854	0.705501	0.100801	0.2
-61	72.24	15.99389	2.140916	0.459425	0.305936	0.665911	0.095144	0.2
-61	72.24	15.99389	1.961222	0.475812	0.290254	0.610019	0.087158	0.2
-61	72.24	15.97652	2.043582	0.435339	0.276717	0.635636	0.090819	0.3
-62	72.24	15.95916	1.976197	0.426313	0.262045	0.614676	0.087824	0.3
-62	72.24	15.95916	1.841426	0.423133	0.242353	0.572757	0.081835	0.3
-62	72.24	15.95916	1.908811	0.379289	0.22519	0.593717	0.084829	0.3
-62	72.24	15.95916	1.789015	0.378393	0.210559	0.556455	0.079505	0.3
-63	72.24	15.9418	1.706656	0.369767	0.196287	0.530838	0.075845	0.3
-63	72.24	15.9418	1.631783	0.367027	0.186284	0.50755	0.072518	0.3
-63	72.24	15.92443	1.55691	0.365448	0.176972	0.484261	0.06919	0.3
-63	72.24	15.90707	1.452089	0.373564	0.168723	0.451658	0.064532	0.3
-64	72.24	15.8897	1.347267	0.387779	0.1625	0.419054	0.059874	0.3
-64	72.24	15.8897	1.279882	0.390895	0.155613	0.398094	0.056879	0.3
-64	72.24	15.87234	1.25742	0.377846	0.147778	0.391108	0.055881	0.3
-64	72.24	15.87234	1.294856	0.350953	0.141347	0.402752	0.057545	0.3
-65	72.24	15.85497	1.302344	0.331416	0.13425	0.405081	0.057877	0.3

-65	72.24	15.83761	1.249933	0.326089	0.126777	0.388779	0.055548	0.3
-65	72.24	15.83761	1.212497	0.322763	0.121725	0.377135	0.053884	0.3
-65	72.24	15.82025	1.137624	0.332255	0.117567	0.353847	0.050557	0.3
-66	72.24	15.80288	1.100188	0.337027	0.115331	0.342202	0.048893	0.3
-66	72.24	15.80288	1.047777	0.343868	0.112067	0.325901	0.046564	0.3
-66	72.24	15.78552	1.002853	0.352839	0.11006	0.311927	0.044568	0.3
-66	72.24	15.76815	0.972904	0.356646	0.107926	0.302612	0.043237	0.3
-67	72.24	15.76815	0.935468	0.359421	0.10458	0.290968	0.041573	0.3
-67	72.24	15.75079	0.883057	0.364466	0.100107	0.274666	0.039244	0.3
-67	72.24	15.75079	0.815672	0.374691	0.095062	0.253707	0.036249	0.3
-68	72.24	15.75079	0.770749	0.374506	0.089782	0.239734	0.034253	0.3
-68	72.24	15.75079	0.703363	0.38467	0.084156	0.218774	0.031258	0.3
-68	72.24	15.75079	0.643465	0.398573	0.079772	0.200143	0.028596	0.3
-68	72.24	15.75079	0.621003	0.391419	0.075605	0.193157	0.027598	0.3
-68	72.24	15.75079	0.598542	0.385225	0.071717	0.18617	0.0266	0.3
-69	72.24	15.73343	0.583567	0.372487	0.067611	0.181513	0.025934	0.3
-69	72.24	15.73343	0.57608	0.353116	0.063273	0.179184	0.025601	0.3
-69	72.24	15.73343	0.568593	0.335434	0.059323	0.176855	0.025269	0.3
-70	72.24	15.73343	0.553618	0.319127	0.054953	0.172197	0.024603	0.3
-70	72.24	15.73343	0.583567	0.277581	0.050384	0.181513	0.025934	0.4
-70	72.24	15.73343	0.613516	0.238393	0.045492	0.190828	0.027265	0.5
-70	72.24	15.71606	0.606029	0.213983	0.040336	0.188499	0.026932	0.5
-71	72.24	15.71606	0.568593	0.202562	0.035824	0.176855	0.025269	0.5
-71	72.24	15.71606	0.553618	0.191264	0.032935	0.172197	0.024603	0.6
-71	72.24	15.71606	0.531156	0.184993	0.030563	0.165211	0.023605	0.6
-3	77.26	27.50635	67.71431	0.143278	3.017692	21.06186	17.04146	0.6
-3	77.26	27.50635	63.52145	0.135517	2.677495	19.75771	15.98626	0.6
-3	77.26	27.50635	58.25042	0.131891	2.38963	18.11821	14.65971	0.6
-4	77.26	27.50635	53.81796	0.127542	2.134989	16.73954	13.54421	0.6
-4	77.26	27.50635	53.09918	0.114927	1.898125	16.51597	13.36332	0.7
-4	77.26	27.50635	52.62	0.1047	1.713622	16.36693	13.24272	0.8
-4	77.26	27.50635	53.57837	0.095134	1.585418	16.66502	13.48391	0.9
-5	77.26	27.52372	54.77633	0.087173	1.485216	17.03763	13.7854	0.9
-5	77.26	27.52372	54.77633	0.082219	1.400816	17.03763	13.7854	1.0
-5	77.26	27.52372	54.29715	0.078595	1.327358	16.88858	13.6648	1.0
-6	77.26	27.52372	54.41694	0.075654	1.280511	16.92585	13.69495	1.1
-6	77.26	27.52372	54.77633	0.073388	1.250357	17.03763	13.7854	1.1
-6	77.26	27.50635	55.25551	0.072818	1.251507	17.18668	13.90599	1.1
-7	77.26	27.50635	55.97429	0.073503	1.279714	17.41025	14.08689	1.1
-7	77.26	27.48899	56.81286	0.074437	1.315378	17.67107	14.29793	1.1
-7	77.26	27.48899	56.45348	0.077402	1.359118	17.55929	14.20748	1.1
-8	77.26	27.47162	54.89613	0.081003	1.383115	17.07489	13.81555	1.0
-8	77.26	27.47162	53.33878	0.084214	1.397145	16.59049	13.42361	1.0
-8	77.26	27.47162	51.90122	0.086935	1.403419	16.14336	13.06183	0.9
-9	77.26	27.45426	50.70326	0.088952	1.402839	15.77074	12.76034	0.9
-9	77.26	27.45426	49.74489	0.090019	1.392828	15.47265	12.51915	0.9
-9	77.26	27.45426	49.38551	0.090039	1.383075	15.36087	12.42871	0.9
-9	77.26	27.4369	49.02612	0.089234	1.360735	15.24908	12.33826	0.9
-10	77.26	27.4369	48.18754	0.088825	1.331331	14.98825	12.12722	0.9
-10	77.26	27.4369	47.82816	0.086734	1.290292	14.87647	12.03677	0.9
-10	77.26	27.4369	47.22918	0.085019	1.248942	14.69016	11.88603	1.0
-11	77.26	27.4369	46.74999	0.083683	1.216844	14.54112	11.76543	1.0
-11	77.26	27.4369	46.5104	0.100077	1.447774	14.4666	11.70514	0.8
-11	77.26	27.41953	46.3906	0.099404	1.434336	14.42933	11.67499	0.8
-12	77.26	27.41953	46.3906	0.098473	1.420899	14.42933	11.67499	0.8
-12	77.26	27.41953	46.74999	0.097254	1.41418	14.54112	11.76543	0.8
-12	77.26	27.41953	47.82816	0.095062	1.41418	14.87647	12.03677	0.9
-12	77.26	27.41953	49.26571	0.076893	1.178275	15.32361	12.39856	1.1
-13	77.26	27.41953	50.94286	0.076304	1.209064	15.84526	12.82064	1.1
-13	77.26	27.41953	52.14082	0.07655	1.24148	16.21788	13.12213	1.1
-13	77.26	27.41953	52.38041	0.078564	1.279999	16.2924	13.18242	1.0
-14	77.26	27.40217	52.14082	0.080896	1.311969	16.21788	13.12213	1.0
-14	77.26	27.40217	50.58347	0.085052	1.33816	15.73348	12.73019	1.0
-14	77.26	27.40217	49.02612	0.089011	1.357332	15.24908	12.33826	0.9
-15	77.26	27.40217	47.94795	0.092348	1.37726	14.91373	12.06692	0.9
-15	77.26	27.40217	46.15101	0.096842	1.390145	14.35481	11.61469	0.8
-15	77.26	27.3848	44.23427	0.10157	1.397468	13.75863	11.13231	0.8
-15	77.26	27.40217	43.03631	0.104112	1.393645	13.38601	10.83082	0.8
-16	77.26	27.40217	42.31754	0.105149	1.38402	13.16245	10.64993	0.8
-16	77.26	27.3848	41.71856	0.105096	1.363736	12.97614	10.49919	0.8
-16	77.26	27.3848	41.83835	0.103151	1.342351	13.01341	10.52934	0.8

-17	77.26	27.3848	42.31754	0.100028	1.316611	13.16245	10.64993	0.8
-17	77.26	27.3848	44.35407	0.093079	1.284104	13.79589	11.16246	0.9
-17	77.26	27.3848	44.83325	0.090608	1.263521	13.94493	11.28305	0.9
-17	77.26	27.36744	44.59366	0.089748	1.244835	13.87041	11.22276	0.9
-18	77.26	27.35007	44.47387	0.088902	1.229795	13.83315	11.19261	0.9
-18	77.26	27.31535	44.95305	0.087567	1.224383	13.98219	11.3132	0.9
-18	77.26	27.26325	44.83325	0.087635	1.222062	13.94494	11.28305	0.9
-19	77.26	27.17643	44.47387	0.088316	1.221684	13.83315	11.19261	0.9
-19	77.26	27.07225	44.11448	0.089978	1.234615	13.72137	11.10216	0.9
-19	77.26	26.9507	43.3957	0.092027	1.242156	13.4978	10.92127	0.9
-19	77.26	26.82915	42.31754	0.095294	1.254307	13.16245	10.64993	0.9
-20	77.26	26.7076	41.47896	0.097681	1.260237	12.90162	10.43889	0.8
-20	77.26	26.60341	40.281	0.100881	1.263936	12.52901	10.1374	0.8
-20	77.26	26.49923	39.92161	0.102593	1.273924	12.41722	10.04695	0.8
-21	77.26	26.37768	39.68202	0.103972	1.283296	12.34269	9.986658	0.8
-21	77.26	26.25613	39.56223	0.104287	1.283299	12.30543	9.956511	0.8
-21	77.26	26.09985	39.20284	0.105217	1.282973	12.19365	9.866064	0.8
-21	77.26	25.90885	38.84345	0.106178	1.282831	12.08187	9.775617	0.8
-22	77.26	25.7352	38.60386	0.106843	1.282899	12.00735	9.71532	0.8
-22	77.26	25.61365	38.24447	0.107839	1.2828	11.89556	9.624874	0.8
-22	77.26	25.42265	38.12467	0.108853	1.290814	11.8583	9.594724	0.8
-22	77.26	25.23164	37.76528	0.110377	1.296539	11.74651	9.504278	0.7
-22	77.26	25.07536	37.4059	0.11225	1.305996	11.63474	9.413833	0.7
-23	77.26	24.90172	36.80692	0.114914	1.315583	11.44842	9.26309	0.7
-23	77.26	24.69335	36.32773	0.117878	1.331942	11.29938	9.142494	0.7
-23	77.26	24.51971	35.96834	0.121037	1.354107	11.1876	9.052047	0.7
-23	77.26	24.31134	35.24957	0.125502	1.376005	10.96403	8.871156	0.7
-24	77.26	24.10297	34.53079	0.129564	1.391577	10.74046	8.690263	0.6
-24	77.26	23.8946	33.81201	0.134349	1.412937	10.51689	8.50937	0.6
-24	77.26	23.70359	33.45262	0.136535	1.420658	10.40511	8.418923	0.6
-25	77.26	23.51259	32.97344	0.137158	1.406698	10.25606	8.298329	0.6
-25	77.26	23.32158	31.89527	0.138823	1.377222	9.920709	8.026989	0.6
-25	77.26	23.14794	31.0567	0.138917	1.341922	9.65988	7.815949	0.6
-26	77.26	22.9743	30.21813	0.137551	1.292852	9.39905	7.604908	0.6
-26	77.26	22.78329	29.13996	0.139527	1.264626	9.063694	7.333568	0.6
-26	77.26	22.60965	28.18159	0.141191	1.237623	8.765606	7.092378	0.6
-27	77.26	22.47073	27.22322	0.143039	1.211183	8.467516	6.851188	0.6
-27	77.26	22.34918	26.38465	0.145119	1.190945	8.206681	6.640148	0.6
-27	77.26	22.22763	25.66588	0.147961	1.181193	7.983113	6.459257	0.6
-27	77.26	22.14081	25.18669	0.14922	1.169002	7.834071	6.338661	0.6
-28	77.26	22.05399	24.8273	0.148193	1.144385	7.722286	6.248214	0.6
-28	77.26	21.96717	24.70751	0.143717	1.10447	7.685027	6.218067	0.6
-28	77.26	21.88035	25.30649	0.132405	1.042203	7.87133	6.36881	0.6
-29	77.26	21.79353	25.30649	0.12398	0.975888	7.871331	6.36881	0.7
-29	77.26	21.68934	24.8273	0.119216	0.920618	7.722285	6.248214	0.7
-29	77.26	21.60252	24.46791	0.114838	0.873972	7.610503	6.157767	0.7
-30	77.26	21.49834	23.68924	0.112206	0.826764	7.368304	5.961802	0.7
-30	77.26	21.39415	23.28493	0.109631	0.794008	7.242545	5.86005	0.7
-30	77.26	21.28997	22.61108	0.109254	0.768377	7.032946	5.690464	0.8
-31	77.26	21.22051	21.83989	0.109899	0.746552	6.793077	5.496381	0.7
-31	77.26	21.11633	20.99383	0.111851	0.730377	6.529924	5.283456	0.7
-31	77.26	21.04687	20.0729	0.115462	0.720881	6.243473	5.051688	0.7
-31	77.26	20.97741	19.13699	0.120099	0.714871	5.952369	4.81615	0.7
-32	77.26	20.89059	18.52303	0.124088	0.71492	5.761408	4.661637	0.7
-32	77.26	20.8385	17.97646	0.128261	0.717158	5.591399	4.524083	0.6
-32	77.26	20.76904	17.69944	0.129703	0.714045	5.505232	4.454366	0.6
-33	77.26	20.69958	17.59461	0.128671	0.70417	5.472631	4.427984	0.6
-33	77.26	20.63013	17.59461	0.125211	0.685231	5.472629	4.427984	0.7
-33	77.26	20.57804	17.34753	0.12204	0.658501	5.39578	4.365802	0.7
-33	77.26	20.50858	16.92825	0.120276	0.633296	5.265361	4.260283	0.7
-34	77.26	20.43912	16.25439	0.121544	0.6145	5.055767	4.090695	0.7
-34	77.26	20.36967	16.24691	0.118815	0.600425	5.053437	4.088812	0.7
-34	77.26	20.30021	16.08219	0.117733	0.588925	5.002207	4.047358	0.7
-35	77.26	20.23075	15.69285	0.118677	0.579273	4.881106	3.949374	0.7
-35	77.26	20.16129	15.61798	0.117175	0.569215	4.857818	3.930531	0.7
-35	77.26	20.09184	15.67788	0.114359	0.557663	4.876447	3.945606	0.7
-36	77.26	20.03975	15.27356	0.115197	0.547267	4.75069	3.843852	0.7
-36	77.26	19.97029	14.69705	0.118642	0.542357	4.571371	3.698764	0.7
-36	77.26	19.88347	15.04895	0.113975	0.533497	4.680822	3.787325	0.7
-37	77.26	19.83138	14.96659	0.112066	0.521691	4.655208	3.766598	0.7
-37	77.26	19.76192	14.63715	0.112371	0.511593	4.552738	3.683689	0.7

-37	77.26	19.69246	13.92586	0.116703	0.505497	4.331498	3.50468	0.7
-37	77.26	19.64037	13.77611	0.117281	0.502538	4.284922	3.466993	0.7
-38	77.26	19.58828	13.73119	0.117506	0.501864	4.27095	3.455688	0.7
-38	77.26	19.53618	13.88842	0.115408	0.498544	4.319854	3.495258	0.7
-38	77.26	19.48409	13.55898	0.117444	0.495308	4.217389	3.412349	0.7
-39	77.26	19.44936	13.07231	0.121295	0.493188	4.066014	3.28987	0.7
-39	77.26	19.39727	12.54072	0.126324	0.492749	3.900664	3.156086	0.7
-39	77.26	19.34518	12.32359	0.127689	0.489447	3.833129	3.101442	0.6
-39	77.26	19.29309	12.17384	0.12757	0.483051	3.786551	3.063755	0.6
-40	77.26	19.25836	12.03158	0.127085	0.475592	3.742304	3.027953	0.6
-40	77.26	19.20626	11.49999	0.13159	0.470693	3.576958	2.894169	0.6
-40	77.26	19.15417	10.89352	0.138239	0.468398	3.388321	2.74154	0.6
-41	77.26	19.11944	10.27956	0.146611	0.468768	3.197356	2.587027	0.6
-41	77.26	19.06735	10.03249	0.150891	0.470855	3.120504	2.524847	0.5
-41	77.26	19.03262	9.755456	0.155644	0.472278	3.034337	2.455127	0.5
-41	77.26	18.98053	9.755456	0.154815	0.469761	3.034338	2.455127	0.5
-42	77.26	18.9458	9.688071	0.153579	0.46279	3.013377	2.438168	0.5
-42	77.26	18.89371	9.63566	0.150953	0.452417	2.997074	2.424978	0.5
-42	77.26	18.84162	9.455966	0.150743	0.443362	2.941183	2.379755	0.5
-43	77.26	18.78952	9.351145	0.149687	0.435377	2.90858	2.353375	0.5
-43	77.26	18.73743	9.291246	0.14908	0.430832	2.889949	2.338301	0.6
-43	77.26	18.65061	9.059141	0.152743	0.430391	2.817755	2.279888	0.5
-44	77.26	18.58115	8.81955	0.159314	0.437034	2.743233	2.21959	0.5
-44	77.26	18.5117	8.542521	0.168266	0.447094	2.657066	2.149871	0.5
-44	77.26	18.44224	8.295442	0.177223	0.457274	2.580213	2.08769	0.5
-44	77.26	18.39015	8.175645	0.182735	0.464686	2.542951	2.057541	0.4
-45	77.26	18.35542	8.078311	0.185788	0.466824	2.512678	2.033045	0.4
-45	77.26	18.33805	7.995951	0.187336	0.465917	2.487059	2.012318	0.4
-45	77.26	18.30333	7.816257	0.192467	0.46792	2.431167	1.967095	0.4
-46	77.26	18.2686	7.673999	0.199072	0.47517	2.386922	1.931293	0.4
-46	77.26	18.23387	7.494305	0.20791	0.484644	2.331027	1.88607	0.4
-46	77.26	18.21651	7.337072	0.216551	0.494196	2.282122	1.846499	0.4
-47	77.26	18.18178	7.187327	0.226568	0.506504	2.235547	1.808814	0.4
-47	77.26	18.16441	7.007633	0.239519	0.522068	2.179654	1.76359	0.3
-47	77.26	18.14705	6.88035	0.254457	0.544554	2.140064	1.731558	0.3
-48	77.26	18.12968	6.588347	0.280744	0.575312	2.049239	1.65807	0.3
-48	77.26	18.09496	6.520961	0.301678	0.611888	2.028281	1.641111	0.3
-48	77.26	18.07759	6.393678	0.329287	0.654848	1.988689	1.609078	0.2
-48	77.26	18.06023	6.288857	0.362798	0.709664	1.956086	1.582698	0.2
-49	77.26	18.0255	6.266395	0.391994	0.764035	1.949099	1.577045	0.2
-49	77.26	18.00813	6.011828	0.432496	0.808732	1.869919	1.512979	0.2
-49	77.26	17.95604	5.674901	0.479377	0.846158	1.765122	1.428186	0.2
-50	77.26	17.92131	5.420335	0.522432	0.88079	1.685941	1.36412	0.2
-50	77.26	17.86922	5.293051	0.555618	0.914742	1.646351	1.332087	0.1
-50	77.26	17.81713	5.165768	0.58484	0.939697	1.606761	1.300054	0.1
-51	77.26	17.7824	5.135819	0.597082	0.953806	1.597445	1.292517	0.1
-51	77.26	17.74767	5.465258	0.560172	0.952245	1.699914	1.375425	0.1
-51	77.26	17.71294	5.689876	0.526713	0.932167	1.769779	1.431954	0.2
-52	77.26	17.67822	5.555105	0.527661	0.911724	1.72786	1.398037	0.2
-52	77.26	17.64349	5.420335	0.530765	0.894839	1.685941	1.36412	0.2
-52	77.26	17.62612	5.285564	0.536504	0.882023	1.644022	1.330202	0.2
-52	77.26	17.59139	5.120844	0.546785	0.870912	1.592788	1.288748	0.2
-52	77.26	17.55667	4.956125	0.558597	0.861106	1.541553	1.247293	0.1
-53	77.26	17.52194	4.791405	0.566357	0.844052	1.490319	1.205839	0.1
-53	77.26	17.48721	4.596736	0.573616	0.820139	1.429769	1.156847	0.1
-53	77.26	17.43512	4.372119	0.585597	0.796355	1.359904	1.100318	0.1
-54	77.26	17.41775	4.012731	0.617817	0.77111	1.248119	1.009872	0.1
-54	77.26	17.38302	3.668317	0.660379	0.753487	1.140993	0.923195	0.1
-54	77.26	17.3483	3.436212	0.699342	0.747456	1.068799	0.864781	0.1
-55	77.26	17.33093	3.219081	0.734314	0.735241	1.001263	0.810137	0.1
-55	77.26	17.31357	3.159183	0.726313	0.713699	0.982633	0.795062	0.1
-55	77.26	17.27884	3.099285	0.710076	0.684514	0.964002	0.779988	0.1
-56	77.26	17.24411	2.86718	0.729506	0.650579	0.891808	0.721575	0.1
-56	77.26	17.22675	2.859693	0.691217	0.614823	0.889479	0.719691	0.1
-56	77.26	17.19202	2.784821	0.667106	0.577841	0.86619	0.700848	0.1
-56	77.26	17.15729	2.582664	0.672158	0.539952	0.803312	0.649971	0.1
-57	77.26	17.12256	2.627588	0.613362	0.501292	0.817285	0.661277	0.1
-57	77.26	17.1052	2.627588	0.567337	0.463676	0.817285	0.661277	0.1
-57	77.26	17.0531	2.470356	0.557364	0.428267	0.76838	0.621707	0.1
-58	77.26	17.03574	2.500305	0.511508	0.397797	0.777695	0.629244	0.2
-58	77.26	16.98365	2.470356	0.479456	0.368404	0.768379	0.621707	0.2

-58	77.26	16.94892	2.43292	0.447383	0.33855	0.756735	0.612286	0.2
-59	77.26	16.93155	2.395483	0.422379	0.314711	0.745091	0.602864	0.2
-59	77.26	16.89683	2.2682	0.411696	0.290452	0.705501	0.570831	0.2
-59	77.26	16.8621	2.275687	0.388634	0.275087	0.70783	0.572715	0.2
-60	77.26	16.84473	2.2682	0.371867	0.262353	0.705501	0.570831	0.2
-60	77.26	16.81001	2.118455	0.381809	0.251583	0.658924	0.533145	0.2
-60	77.26	16.77528	2.148404	0.361023	0.241249	0.668239	0.540683	0.2
-61	77.26	16.70582	2.118455	0.355749	0.234411	0.658924	0.533145	0.2
-61	77.26	16.63636	1.983684	0.368482	0.227355	0.617005	0.499228	0.2
-61	77.26	16.58427	1.908811	0.373589	0.221806	0.593717	0.480385	0.2
-61	77.26	16.53218	1.878862	0.370435	0.216482	0.584401	0.472848	0.2
-62	77.26	16.48009	1.72163	0.397347	0.212778	0.535496	0.433278	0.2
-62	77.26	16.42799	1.766554	0.377467	0.207406	0.549469	0.444583	0.2
-62	77.26	16.39326	1.654245	0.395249	0.20337	0.514536	0.416319	0.2
-62	77.26	16.34117	1.676707	0.381349	0.198882	0.521523	0.421972	0.2
-63	77.26	16.28908	1.55691	0.401185	0.194278	0.484261	0.391823	0.2
-63	77.26	16.23699	1.564398	0.38973	0.189639	0.48659	0.393707	0.2
-63	77.26	16.18489	1.437114	0.408453	0.182578	0.447	0.361674	0.2
-64	77.26	16.1328	1.459576	0.388864	0.176539	0.453987	0.367327	0.2
-64	77.26	16.09807	1.33978	0.40085	0.167044	0.416725	0.337179	0.2
-64	77.26	16.06334	1.362242	0.369375	0.156509	0.423712	0.342831	0.2
-64	77.26	16.04598	1.272395	0.369419	0.146203	0.395766	0.32022	0.2
-65	77.26	16.01125	1.272395	0.337893	0.133727	0.395766	0.32022	0.2
-65	77.26	15.99389	1.167573	0.340603	0.123694	0.363162	0.29384	0.2
-65	77.26	15.97652	1.130137	0.327653	0.115176	0.351518	0.284418	0.3
-65	77.26	15.95916	1.070239	0.326237	0.1086	0.332887	0.269344	0.3
-66	77.26	15.9418	1.010341	0.324057	0.101837	0.314256	0.25427	0.3
-66	77.26	15.90707	1.002853	0.308469	0.09622	0.311928	0.252385	0.3
-66	77.26	15.87234	0.913006	0.315462	0.089585	0.283981	0.229774	0.3
-67	77.26	15.82025	0.965417	0.279392	0.083897	0.300283	0.242964	0.3
-67	77.26	15.76815	0.905519	0.272946	0.076876	0.281653	0.227889	0.3
-67	77.26	15.73343	0.860596	0.268397	0.071844	0.26768	0.216584	0.3
-67	77.26	15.6987	0.868083	0.244065	0.0659	0.270008	0.218468	0.3
-68	77.26	15.68133	0.79321	0.2565	0.063284	0.24672	0.199625	0.3
-68	77.26	15.6466	0.725825	0.263453	0.059477	0.225761	0.182666	0.3
-68	77.26	15.61188	0.71085	0.259737	0.057429	0.221103	0.178898	0.3
-68	77.26	15.57715	0.665927	0.268264	0.055566	0.20713	0.167592	0.3
-68	77.26	15.55978	0.650952	0.263917	0.053436	0.202472	0.163823	0.3
-69	77.26	15.54242	0.613516	0.272582	0.052016	0.190828	0.154402	0.3
-69	77.26	15.52505	0.561105	0.285731	0.049868	0.174526	0.141212	0.3
-69	77.26	15.52505	0.628491	0.244543	0.047805	0.195486	0.15817	0.3
-70	77.26	15.50769	0.561105	0.259225	0.045242	0.174526	0.141212	0.3
-70	77.26	15.49033	0.591054	0.231397	0.04254	0.183842	0.148749	0.4
-70	77.26	15.47296	0.523669	0.244311	0.039794	0.162882	0.13179	0.3
-70	77.26	15.47296	0.561105	0.215529	0.037615	0.174526	0.141212	0.4
-71	77.26	15.47296	0.508695	0.223412	0.035349	0.158224	0.128022	0.4
-71	77.26	15.47296	0.501207	0.212652	0.033152	0.155896	0.126137	0.4
-71	77.26	15.4556	0.486233	0.212978	0.03221	0.151238	0.122369	0.4
-71	77.26	15.4556	0.433822	0.223409	0.030146	0.134936	0.109179	0.4
-72	77.26	15.4556	0.433822	0.222497	0.030023	0.134936	0.109179	0.4
-72	77.26	15.4556	0.343975	0.272652	0.029171	0.10699	0.086567	0.3
-72	77.26	15.4556	0.41136	0.227223	0.029073	0.127949	0.103526	0.4
-72	77.26	15.43823	0.343975	0.261397	0.027967	0.10699	0.086567	0.3
-73	77.26	15.42087	0.396386	0.220979	0.027245	0.123292	0.099757	0.4
-73	77.26	15.42087	0.351462	0.234401	0.025624	0.109319	0.088451	0.4
-73	77.26	15.40351	0.343975	0.22695	0.024281	0.10699	0.086567	0.4
-74	77.26	15.38614	0.329	0.218039	0.022312	0.102332	0.082799	0.4
-74	77.26	15.38614	0.284077	0.239296	0.021144	0.088359	0.071493	0.3
-74	77.26	15.36878	0.291564	0.224168	0.020329	0.090688	0.073377	0.4
-74	77.26	15.35141	0.231666	0.265335	0.019119	0.072057	0.058303	0.3
-74	77.26	15.33405	0.254128	0.233539	0.01846	0.079044	0.063956	0.4
-75	77.26	15.33405	0.186743	0.297426	0.017276	0.058084	0.046997	0.3
-75	77.26	15.33405	0.231666	0.239894	0.017286	0.072057	0.058303	0.3
-75	77.26	15.31668	0.164281	0.314762	0.016084	0.051098	0.041344	0.3
-76	77.26	15.31668	0.246641	0.213779	0.0164	0.076715	0.062071	0.4
-76	77.26	15.31668	0.179255	0.270757	0.015096	0.055756	0.045113	0.3
-76	77.26	15.29932	0.231666	0.200978	0.014482	0.072057	0.058303	0.4
-77	77.26	15.29932	0.186743	0.234064	0.013595	0.058084	0.046997	0.4
-77	77.26	15.29932	0.209204	0.203909	0.013269	0.065071	0.05265	0.4
-77	77.26	15.29932	0.186743	0.21358	0.012406	0.058084	0.046997	0.4
-77	77.26	15.29932	0.156793	0.22949	0.011192	0.048769	0.03946	0.4

-78	77.26	15.29932	0.171768	0.199791	0.010674	0.053427	0.043228	0.4
-78	77.26	15.28196	0.11187	0.284404	0.009896	0.034796	0.028154	0.3
-78	77.26	15.28196	0.149306	0.199952	0.009286	0.04644	0.037575	0.4
-78	77.26	15.29932	0.066946	0.407462	0.008485	0.020823	0.016848	0.2
-79	77.26	15.29932	0.141819	0.195397	0.008619	0.044111	0.035691	0.4
-79	77.26	15.28196	0.074434	0.340238	0.007877	0.023152	0.018732	0.2
-79	77.26	15.28196	0.149306	0.157414	0.00731	0.04644	0.037575	0.5
-80	77.26	15.28196	0.081921	0.257396	0.006559	0.025481	0.020617	0.3
-80	77.26	15.28196	0.156793	0.109927	0.005361	0.048769	0.03946	0.7
-80	77.26	15.28196	0.126844	0.149788	0.00591	0.039454	0.031923	0.5
-80	77.26	15.28196	0.134332	0.120083	0.005017	0.041783	0.033807	0.7
-81	77.26	15.28196	0.141819	0.121123	0.005343	0.044111	0.035691	0.7
-4	84.73	27.64527	280.9514	0.11394	9.956904	87.38711	25.14254	0.9
-5	84.73	27.64527	266.9352	0.109362	9.080027	83.02756	23.88822	0.9
-5	84.73	27.64527	251.8409	0.106528	8.344607	78.3326	22.53742	1.0
-5	84.73	27.6279	241.4187	0.102264	7.679064	75.09088	21.60473	1.0
-6	84.73	27.6279	236.3872	0.097244	7.149946	73.5259	21.15446	1.1
-6	84.73	27.61054	230.2776	0.095227	6.820658	71.62554	20.60771	1.1
-6	84.73	27.59317	225.965	0.092831	6.524518	70.28414	20.22177	1.1
-7	84.73	27.57581	218.6574	0.091677	6.23506	68.01119	19.56781	1.1
-7	84.73	27.55844	210.6311	0.091006	5.962226	65.51469	18.84953	1.1
-7	84.73	27.54108	204.4017	0.090034	5.724073	63.57709	18.29206	1.1
-7	84.73	27.52372	200.089	0.088319	5.496574	62.23566	17.90611	1.2
-7	84.73	27.52372	193.3804	0.08769	5.274491	60.14905	17.30575	1.2
-8	84.73	27.50635	190.9845	0.085519	5.080156	59.40382	17.09134	1.2
-8	84.73	27.48899	192.3023	0.08234	4.925051	59.81372	17.20927	1.2
-8	84.73	27.48899	194.818	0.079155	4.796513	60.59621	17.4344	1.3
-8	84.73	27.48899	194.0992	0.077843	4.699585	60.37264	17.37008	1.3
-8	84.73	27.47162	192.5419	0.077271	4.627606	59.88822	17.23071	1.3
-9	84.73	27.45426	192.9012	0.076656	4.599336	60.00001	17.26287	1.3
-9	84.73	27.45426	193.7398	0.07653	4.611738	60.26081	17.33791	1.3
-9	84.73	27.45426	194.219	0.077087	4.656843	60.40988	17.3808	1.3
-10	84.73	27.4369	194.219	0.077898	4.705828	60.40985	17.3808	1.3
-10	84.73	27.4369	192.1825	0.07962	4.759409	59.77644	17.19855	1.3
-10	84.73	27.4369	189.0678	0.081435	4.789027	58.80766	16.91981	1.3
-10	84.73	27.41953	185.1145	0.083034	4.780957	57.57801	16.56603	1.2
-11	84.73	27.40217	181.6404	0.084063	4.749335	56.49742	16.25513	1.2
-11	84.73	27.3848	179.9633	0.083953	4.699352	55.97576	16.10505	1.2
-11	84.73	27.36744	177.5673	0.084092	4.644423	55.23056	15.89063	1.2
-12	84.73	27.33271	173.4943	0.084902	4.581615	53.96367	15.52613	1.2
-12	84.73	27.31535	170.2598	0.085068	4.505008	52.95763	15.23667	1.2
-12	84.73	27.29798	166.0669	0.085657	4.424462	51.65344	14.86145	1.2
-13	84.73	27.26325	161.9938	0.085983	4.332394	50.38654	14.49694	1.2
-13	84.73	27.22853	159.3583	0.085635	4.244637	49.56681	14.26109	1.2
-13	84.73	27.21116	160.4365	0.083476	4.165657	49.90217	14.35758	1.2
-14	84.73	27.17643	160.3167	0.082433	4.11051	49.86491	14.34686	1.2
-14	84.73	27.15907	160.7959	0.081583	4.080271	50.01396	14.38974	1.3
-14	84.73	27.12434	161.5147	0.080874	4.062904	50.23753	14.45407	1.3
-14	84.73	27.08961	161.7542	0.080787	4.064536	50.31204	14.4755	1.3
-15	84.73	27.07225	161.6345	0.081223	4.083468	50.27478	14.46479	1.3
-15	84.73	27.03752	161.0355	0.082143	4.114395	50.08848	14.41118	1.2
-15	84.73	27.02015	161.3949	0.082802	4.156665	50.20026	14.44335	1.2
-16	84.73	27.00279	160.6761	0.084472	4.221612	49.97669	14.37902	1.2
-16	84.73	26.96806	160.1969	0.086194	4.294851	49.82764	14.33614	1.2
-16	84.73	26.96806	159.1187	0.088104	4.360461	49.49228	14.23965	1.2
-17	84.73	26.9507	157.3218	0.090449	4.425957	48.93336	14.07884	1.1
-17	84.73	26.93333	154.6863	0.093368	4.492282	48.11361	13.84299	1.1
-17	84.73	26.91597	153.1289	0.095939	4.569497	47.62921	13.70362	1.1
-18	84.73	26.89861	150.0142	0.09958	4.646445	46.66044	13.42488	1.0
-18	84.73	26.88124	146.8995	0.103366	4.72297	45.69162	13.14614	1.0
-18	84.73	26.84651	144.9828	0.105802	4.771164	45.09542	12.97462	1.0
-19	84.73	26.82915	142.2275	0.108308	4.79136	44.23844	12.72804	0.9
-19	84.73	26.79442	139.592	0.110227	4.785908	43.41869	12.49219	0.9
-19	84.73	26.75969	136.7169	0.11197	4.761448	42.52439	12.23489	0.9
-19	84.73	26.7076	134.2011	0.112971	4.715604	41.74191	12.00975	0.9
-20	84.73	26.63814	132.1646	0.112969	4.643965	41.10846	11.82751	0.9
-20	84.73	26.58605	129.1697	0.113861	4.574604	40.17695	11.55949	0.9
-20	84.73	26.51659	122.5809	0.118582	4.52126	38.12758	10.96985	0.9
-21	84.73	26.42977	115.8723	0.124777	4.497064	36.04092	10.3695	0.8
-21	84.73	26.32559	110.9607	0.130198	4.493565	34.51321	9.929953	0.8
-21	84.73	26.2214	107.0074	0.134034	4.461134	33.28358	9.57617	0.8

-21	84.73	26.06512	104.7313	0.134494	4.381232	32.57562	9.37248	0.8
-22	84.73	25.87412	104.6115	0.130587	4.249095	32.53837	9.361759	0.8
-22	84.73	25.68311	105.8095	0.12448	4.09675	32.91099	9.468969	0.8
-22	84.73	25.47474	104.6115	0.121111	3.940766	32.53836	9.361759	0.8
-22	84.73	25.26637	106.4084	0.114418	3.786935	33.09728	9.522565	0.9
-23	84.73	25.058	107.846	0.108646	3.644462	33.54443	9.651216	0.9
-23	84.73	24.84963	108.445	0.104436	3.522689	33.73073	9.704821	1.0
-23	84.73	24.64126	110.2419	0.100069	3.431342	34.28966	9.865627	1.0
-24	84.73	24.43289	109.4034	0.09923	3.376673	34.02882	9.790589	1.0
-24	84.73	24.24188	107.7262	0.100313	3.361216	33.50715	9.640496	1.0
-24	84.73	24.06824	104.2521	0.104019	3.372972	32.42659	9.329596	1.0
-24	84.73	23.92933	98.26231	0.111961	3.421907	30.5635	8.793565	0.9
-25	84.73	23.80778	87.95985	0.128953	3.528026	27.35903	7.871591	0.8
-25	84.73	23.68623	82.20964	0.142684	3.648498	25.57049	7.357	0.7
-25	84.73	23.59941	81.13147	0.148059	3.736291	25.23513	7.260514	0.7
-25	84.73	23.47786	81.85025	0.147302	3.750111	25.45871	7.324838	0.7
-26	84.73	23.33894	83.64719	0.14201	3.694771	26.01763	7.485647	0.7
-26	84.73	23.20003	84.24617	0.136634	3.580352	26.20392	7.539251	0.7
-26	84.73	23.07848	81.13147	0.137096	3.459628	25.23513	7.260514	0.7
-26	84.73	22.95693	78.49596	0.137371	3.353955	24.41537	7.02466	0.7
-27	84.73	22.85275	78.25636	0.133361	3.246125	24.34087	7.003218	0.8
-27	84.73	22.71383	77.89698	0.128707	3.118442	24.22908	6.971057	0.8
-27	84.73	22.55755	77.89698	0.124186	3.008911	24.22909	6.971057	0.8
-27	84.73	22.40128	78.73555	0.118956	2.913211	24.4899	7.046101	0.9
-28	84.73	22.245	78.85535	0.11543	2.831177	24.52718	7.056822	0.9
-28	84.73	22.10609	76.93861	0.115424	2.762209	23.93098	6.885292	0.9
-28	84.73	22.0019	73.34473	0.118708	2.708109	22.81314	6.563673	0.9
-28	84.73	21.88035	69.63104	0.124227	2.690504	21.65804	6.231332	0.8
-29	84.73	21.7588	67.23512	0.129364	2.705358	20.91281	6.016919	0.8
-29	84.73	21.65462	66.03716	0.133031	2.732489	20.54019	5.909713	0.8
-29	84.73	21.55043	65.79757	0.134115	2.74475	20.46568	5.888272	0.8
-29	84.73	21.48097	66.27676	0.132398	2.729356	20.61472	5.931155	0.8
-30	84.73	21.39415	66.75594	0.128957	2.677627	20.76377	5.974037	0.8
-30	84.73	21.3247	66.99553	0.1251	2.606859	20.83829	5.995478	0.8
-30	84.73	21.25524	66.15696	0.123067	2.532402	20.57746	5.920434	0.8
-30	84.73	21.20315	65.31839	0.12145	2.467447	20.31663	5.84539	0.8
-31	84.73	21.15105	64.36002	0.12078	2.417847	20.01853	5.759625	0.8
-31	84.73	21.11633	63.64124	0.120233	2.380005	19.79497	5.695301	0.9
-31	84.73	21.0816	62.68287	0.120829	2.355794	19.49689	5.609535	0.8
-31	84.73	21.04687	61.9641	0.121742	2.346364	19.27331	5.545212	0.8
-32	84.73	21.0295	61.12552	0.123539	2.348779	19.01248	5.470167	0.8
-32	84.73	20.99478	60.40675	0.125596	2.359815	18.78892	5.405844	0.8
-32	84.73	20.97741	59.80777	0.127201	2.366268	18.60261	5.352241	0.8
-33	84.73	20.96005	58.8494	0.129395	2.368504	18.30452	5.266475	0.8
-33	84.73	20.92532	57.89103	0.131234	2.363046	18.00642	5.18071	0.8
-33	84.73	20.90796	57.05246	0.132779	2.356237	17.7456	5.105666	0.8
-33	84.73	20.90796	56.33368	0.133758	2.343702	17.52203	5.041342	0.8
-34	84.73	20.87323	55.37531	0.135492	2.333711	17.22394	4.955577	0.8
-34	84.73	20.8385	54.41694	0.137302	2.323957	16.92584	4.869811	0.7
-34	84.73	20.82113	53.57837	0.138547	2.308889	16.66502	4.794767	0.7
-34	84.73	20.78641	52.62	0.140472	2.299101	16.36693	4.709002	0.7
-35	84.73	20.71695	51.78143	0.142804	2.300022	16.1061	4.633958	0.7
-35	84.73	20.64749	51.06265	0.145988	2.318664	15.88253	4.569633	0.7
-35	84.73	20.57804	50.34387	0.151026	2.364906	15.65896	4.505309	0.7
-36	84.73	20.50858	49.86469	0.155916	2.418241	15.50991	4.462427	0.7
-36	84.73	20.43912	49.38551	0.159709	2.453264	15.36087	4.419545	0.6
-36	84.73	20.36967	48.66673	0.163311	2.472087	15.1373	4.355221	0.6
-36	84.73	20.30021	47.34897	0.167897	2.472693	14.72742	4.237294	0.6
-37	84.73	20.24812	46.6302	0.169834	2.463248	14.50386	4.17297	0.6
-37	84.73	20.21339	45.67183	0.172638	2.452461	14.20577	4.087205	0.6
-37	84.73	20.16129	43.87489	0.178344	2.43383	13.64684	3.926396	0.6
-37	84.73	20.1092	42.07794	0.184794	2.41857	13.08793	3.765585	0.6
-38	84.73	20.05711	40.04141	0.193252	2.40685	12.45448	3.583335	0.5
-38	84.73	20.00502	37.64548	0.204929	2.399561	11.70925	3.368921	0.5
-38	84.73	19.95292	37.64548	0.204878	2.398971	11.70925	3.368921	0.5
-39	84.73	19.9182	38.60386	0.198375	2.381958	12.00734	3.454687	0.5
-39	84.73	19.8661	39.20284	0.194549	2.372256	12.19365	3.50829	0.5
-39	84.73	19.84874	39.32263	0.193785	2.370163	12.23091	3.519011	0.5
-39	84.73	19.83138	39.20284	0.193422	2.358517	12.19365	3.50829	0.5
-40	84.73	19.79665	38.72365	0.193982	2.336437	12.04461	3.465407	0.5
-40	84.73	19.77928	38.36426	0.194269	2.318176	11.93282	3.433245	0.5

-40	84.73	19.74455	38.24447	0.195063	2.320381	11.89556	3.422525	0.5
-41	84.73	19.72719	38.00488	0.199036	2.352809	11.82104	3.401084	0.5
-41	84.73	19.69246	37.64548	0.20772	2.432248	11.70925	3.368921	0.5
-41	84.73	19.65773	36.80692	0.222889	2.551723	11.44842	3.293878	0.5
-41	84.73	19.64037	35.72875	0.240919	2.67735	11.11307	3.197392	0.4
-42	84.73	19.60564	34.05161	0.263441	2.790212	10.59141	3.047303	0.4
-42	84.73	19.57091	32.73384	0.284271	2.894317	10.18154	2.929375	0.4
-42	84.73	19.53618	32.49426	0.297407	3.005899	10.10701	2.907935	0.3
-42	84.73	19.51882	32.61405	0.309323	3.137862	10.14428	2.918655	0.3
-43	84.73	19.46673	32.37446	0.329375	3.316722	10.06975	2.897214	0.3
-43	84.73	19.432	31.65568	0.356372	3.508905	9.846184	2.83289	0.3
-43	84.73	19.37991	30.81711	0.385475	3.694912	9.585354	2.757845	0.3
-44	84.73	19.32781	29.97854	0.41569	3.876112	9.324524	2.682801	0.2
-44	84.73	19.27572	29.13996	0.451969	4.096506	9.063695	2.607756	0.2
-44	84.73	19.24099	28.54098	0.50306	4.465856	8.87739	2.554153	0.2
-44	84.73	19.22363	28.0618	0.580448	5.066345	8.728343	2.511271	0.2
-45	84.73	19.1889	27.34302	0.669119	5.69071	8.504776	2.446947	0.2
-45	84.73	19.15417	26.38465	0.74545	6.117677	8.206686	2.361181	0.1
-45	84.73	19.11944	25.66588	0.795255	6.348607	7.983114	2.296858	0.1
-46	84.73	19.08471	24.8273	0.834672	6.445574	7.722284	2.221813	0.1
-46	84.73	19.04999	23.92134	0.865957	6.443146	7.440495	2.140738	0.1
-46	84.73	18.99789	23.36729	0.870944	6.330161	7.268162	2.091156	0.1
-46	84.73	18.9458	22.76082	0.867807	6.143662	7.079526	2.036882	0.1
-47	84.73	18.91107	22.13938	0.855794	5.893193	6.886231	1.981269	0.1
-47	84.73	18.87634	21.47301	0.837205	5.591665	6.678967	1.921635	0.1
-47	84.73	18.82425	20.8366	0.806773	5.228712	6.481017	1.864682	0.1
-48	84.73	18.78952	20.17023	0.768947	4.824179	6.27375	1.805048	0.1
-48	84.73	18.7548	19.72099	0.725857	4.452421	6.134019	1.764846	0.1
-48	84.73	18.72007	19.26427	0.689993	4.134408	5.99196	1.723973	0.1
-49	84.73	18.68534	18.8375	0.663302	3.88643	5.859216	1.685781	0.2
-49	84.73	18.66797	18.44067	0.649885	3.727601	5.735788	1.650269	0.2
-49	84.73	18.61588	17.88662	0.6597	3.670212	5.563454	1.600687	0.2
-49	84.73	18.56379	17.44487	0.683852	3.710616	5.426052	1.561154	0.1
-50	84.73	18.5117	16.97317	0.704335	3.718421	5.279335	1.518941	0.1
-50	84.73	18.4596	16.58383	0.712509	3.675291	5.158236	1.484099	0.1
-50	84.73	18.44224	16.08219	0.714255	3.57285	5.002204	1.439207	0.1
-51	84.73	18.40751	15.74526	0.69998	3.428084	4.897407	1.409055	0.1
-51	84.73	18.37278	15.31849	0.686626	3.271539	4.764662	1.370863	0.1
-51	84.73	18.35542	14.94413	0.668372	3.106741	4.648221	1.337361	0.2
-52	84.73	18.32069	14.55479	0.650073	2.942959	4.527121	1.302519	0.2
-52	84.73	18.30333	14.22535	0.628226	2.779682	4.424652	1.273037	0.2
-52	84.73	18.28596	13.94832	0.605785	2.628188	4.338485	1.248245	0.2
-52	84.73	18.25123	13.61888	0.587191	2.48735	4.236017	1.218763	0.2
-53	84.73	18.23387	13.27447	0.569848	2.352839	4.128891	1.187942	0.2
-53	84.73	18.21651	12.96	0.554915	2.236906	4.031079	1.1598	0.2
-53	84.73	18.18178	12.7279	0.541298	2.142937	3.958885	1.139029	0.2
-54	84.73	18.16441	12.39846	0.533035	2.055603	3.856416	1.109547	0.2
-54	84.73	18.14705	12.03158	0.52972	1.982374	3.742303	1.076715	0.2
-54	84.73	18.11232	11.79948	0.522169	1.916418	3.670109	1.055944	0.2
-54	84.73	18.09496	11.45506	0.523026	1.863533	3.562983	1.025122	0.2
-55	84.73	18.07759	11.11065	0.523117	1.807816	3.455857	0.9943	0.2
-55	84.73	18.06023	10.96839	0.511126	1.743762	3.411609	0.981569	0.2
-55	84.73	18.0255	10.82613	0.499016	1.680366	3.367361	0.968838	0.2
-56	84.73	18.00813	10.65393	0.490783	1.626356	3.313798	0.953428	0.2
-56	84.73	17.97341	10.48172	0.479396	1.562942	3.260234	0.938017	0.2
-56	84.73	17.95604	10.21967	0.473495	1.505112	3.178726	0.914566	0.2
-56	84.73	17.93868	9.987561	0.469107	1.457297	3.106531	0.893794	0.2
-57	84.73	17.90395	9.755456	0.465073	1.411189	3.034337	0.873023	0.2
-57	84.73	17.86922	9.515864	0.461931	1.36723	2.959815	0.851582	0.2
-57	84.73	17.83449	9.343657	0.458142	1.331475	2.906251	0.836171	0.2
-58	84.73	17.79976	9.321196	0.444872	1.289801	2.899265	0.834161	0.2
-58	84.73	17.7824	9.238835	0.430724	1.237748	2.873647	0.82679	0.2
-58	84.73	17.74767	9.021705	0.427573	1.199816	2.806112	0.807359	0.2
-59	84.73	17.71294	8.70724	0.430182	1.165061	2.708301	0.779217	0.2
-59	84.73	17.67822	8.594932	0.421507	1.126842	2.673368	0.769167	0.2
-59	84.73	17.64349	8.490109	0.414908	1.095675	2.640763	0.759786	0.2
-60	84.73	17.62612	8.190619	0.418272	1.065595	2.547611	0.732984	0.2
-60	84.73	17.60876	8.018413	0.415215	1.035564	2.494047	0.717574	0.2
-60	84.73	17.57403	7.801282	0.415518	1.008258	2.426511	0.698142	0.2
-61	84.73	17.55667	7.584152	0.41642	0.982323	2.358975	0.678711	0.2
-61	84.73	17.52194	7.471843	0.413015	0.959865	2.324042	0.668661	0.2

-61	84.73	17.50457	7.269687	0.414791	0.937911	2.261164	0.65057	0.2
-62	84.73	17.46984	7.000146	0.420491	0.915545	2.177326	0.626448	0.2
-62	84.73	17.45248	6.910299	0.417154	0.896622	2.14938	0.618408	0.2
-62	84.73	17.41775	6.812964	0.412705	0.874564	2.119104	0.609697	0.2
-62	84.73	17.40039	6.670707	0.409635	0.849933	2.074857	0.596966	0.2
-63	84.73	17.38302	6.461063	0.411469	0.826908	2.009649	0.578205	0.2
-63	84.73	17.36566	6.348754	0.405749	0.80124	1.974717	0.568155	0.3
-63	84.73	17.3483	6.243933	0.398255	0.773456	1.942113	0.558774	0.3
-64	84.73	17.33093	6.146599	0.389707	0.745056	1.911838	0.550064	0.3
-64	84.73	17.2962	6.041777	0.380713	0.715449	1.879235	0.540683	0.3
-64	84.73	17.26147	5.936955	0.372866	0.688546	1.846631	0.531302	0.3
-64	84.73	17.22675	5.824646	0.368584	0.667762	1.811698	0.521252	0.3
-65	84.73	17.19202	5.667414	0.366951	0.646858	1.762793	0.507181	0.3
-65	84.73	17.15729	5.547618	0.364598	0.629125	1.725531	0.49646	0.3
-65	84.73	17.12256	5.442797	0.362653	0.613946	1.692928	0.48708	0.3
-65	84.73	17.1052	5.27059	0.364694	0.597866	1.639365	0.471669	0.3
-66	84.73	17.07047	5.263103	0.356201	0.583113	1.637035	0.470999	0.3
-66	84.73	17.0531	5.158281	0.354186	0.568267	1.604431	0.461618	0.3
-66	84.73	17.03574	4.971099	0.358464	0.554262	1.546211	0.444867	0.3
-67	84.73	17.00101	4.956125	0.350245	0.539922	1.541553	0.443527	0.3
-67	84.73	16.98365	4.911201	0.343777	0.525147	1.52758	0.439507	0.3
-67	84.73	16.96628	4.753969	0.344458	0.509341	1.478675	0.425436	0.3
-67	84.73	16.94892	4.761456	0.334252	0.495028	1.481003	0.426106	0.3
-68	84.73	16.93155	4.716533	0.327125	0.479902	1.467031	0.422086	0.3
-68	84.73	16.91419	4.604224	0.32554	0.466205	1.432098	0.412035	0.3
-68	84.73	16.89683	4.574275	0.3182	0.45273	1.422782	0.409355	0.3
-68	84.73	16.87946	4.432017	0.317897	0.438232	1.378535	0.396624	0.3
-69	84.73	16.8621	4.409555	0.309903	0.425047	1.371548	0.394614	0.3
-69	84.73	16.8621	4.297246	0.308158	0.411888	1.336616	0.384564	0.3
-69	84.73	16.84473	4.297246	0.298555	0.399053	1.336616	0.384564	0.3
-70	84.73	16.82737	4.214887	0.294415	0.385978	1.310998	0.377193	0.3
-70	84.73	16.81001	4.169963	0.289151	0.375037	1.297025	0.373173	0.4
-70	84.73	16.79264	4.04268	0.289231	0.36369	1.257435	0.361782	0.4
-70	84.73	16.77528	4.080116	0.27973	0.354999	1.269079	0.365133	0.4
-71	84.73	16.75791	3.967807	0.280015	0.34558	1.234147	0.355082	0.4
-71	84.73	16.74055	3.945345	0.272705	0.334653	1.22716	0.353072	0.4
-71	84.73	16.74055	3.870473	0.268259	0.322949	1.203872	0.346371	0.4
-71	84.73	16.72318	3.765651	0.261274	0.306022	1.171268	0.336991	0.4
-72	84.73	16.70582	3.773138	0.244206	0.286599	1.173597	0.337661	0.4
-72	84.73	16.68846	3.698266	0.232315	0.267233	1.150308	0.33096	0.4
-72	84.73	16.67109	3.585957	0.222834	0.248544	1.115376	0.32091	0.5
-72	84.73	16.65373	3.436212	0.218355	0.233377	1.068799	0.307509	0.5
-73	84.73	16.619	3.286467	0.218444	0.223298	1.022222	0.294108	0.5
-73	84.73	16.60163	3.061849	0.228338	0.217459	0.952357	0.274007	0.4
-73	84.73	16.54954	3.054362	0.225415	0.214151	0.950029	0.273337	0.5
-74	84.73	16.49745	3.091798	0.216489	0.208192	0.961673	0.276687	0.5
-74	84.73	16.46272	3.11426	0.206383	0.199915	0.96866	0.278697	0.5
-74	84.73	16.41063	3.11426	0.196648	0.190484	0.968659	0.278697	0.5
-74	84.73	16.35854	3.069336	0.188636	0.180089	0.954686	0.274677	0.5
-75	84.73	16.34117	3.061849	0.178949	0.170424	0.952358	0.274007	0.6
-75	84.73	16.32381	3.016925	0.173123	0.162456	0.938384	0.269987	0.6
-75	84.73	16.28908	2.927078	0.172025	0.156618	0.910438	0.261946	0.6
-75	84.73	16.27172	2.792308	0.174613	0.151655	0.868519	0.249886	0.6
-76	84.73	16.23699	2.65005	0.181771	0.149829	0.824272	0.237155	0.6
-76	84.73	16.21962	2.522767	0.189453	0.14866	0.784681	0.225764	0.5
-76	84.73	16.20226	2.477843	0.190825	0.14707	0.770708	0.221744	0.5
-76	84.73	16.20226	2.470356	0.188497	0.144837	0.768379	0.221074	0.5
-77	84.73	16.18489	2.447894	0.184338	0.140354	0.761393	0.219064	0.6
-77	84.73	16.16753	2.395483	0.182291	0.135823	0.745091	0.214374	0.6
-77	84.73	16.16753	2.328098	0.178937	0.129574	0.724132	0.208343	0.6
-78	84.73	16.16753	2.2682	0.176057	0.124208	0.705501	0.202983	0.6
-78	84.73	16.15017	2.230763	0.171664	0.11911	0.693857	0.199633	0.6
-78	84.73	16.1328	2.208302	0.166116	0.1141	0.68687	0.197623	0.6
-78	84.73	16.11544	2.18584	0.162242	0.110305	0.679884	0.195612	0.6
-78	84.73	16.11544	2.088506	0.166534	0.108182	0.649609	0.186902	0.6
-79	84.73	16.11544	1.976197	0.171289	0.105287	0.614676	0.176851	0.6
-79	84.73	16.11544	1.871375	0.179632	0.104559	0.582072	0.167471	0.6
-79	84.73	16.09807	1.796503	0.183887	0.102753	0.558784	0.16077	0.6
-79	84.73	16.08071	1.781528	0.18244	0.101095	0.554126	0.15943	0.6
-80	84.73	16.08071	1.781528	0.178146	0.098716	0.554127	0.15943	0.6
-80	84.73	16.06334	1.714143	0.180041	0.095992	0.533167	0.1534	0.6

-80	84.73	16.04598	1.706656	0.175898	0.093373	0.530838	0.15273	0.6
-81	84.73	16.04598	1.631783	0.178652	0.090675	0.50755	0.146029	0.6
-81	84.73	16.02862	1.519474	0.186311	0.088054	0.472617	0.135979	0.5
-81	84.73	16.02862	1.489525	0.182865	0.084722	0.463302	0.133299	0.6
-81	84.73	16.01125	1.489525	0.17847	0.082685	0.463302	0.133299	0.6
-81	84.73	16.01125	1.414653	0.181948	0.08006	0.440014	0.126598	0.6
-82	84.73	15.99389	1.414653	0.17706	0.077909	0.440014	0.126598	0.6
-82	84.73	15.99389	1.354754	0.179131	0.075483	0.421383	0.121238	0.6
-82	84.73	15.99389	1.242446	0.188788	0.072957	0.38645	0.111187	0.5
-83	84.73	15.97652	1.219984	0.187024	0.070969	0.379464	0.109177	0.5
-83	84.73	15.97652	1.212497	0.180438	0.068049	0.377135	0.108507	0.6
-83	84.73	15.97652	1.167573	0.179345	0.065131	0.363162	0.104487	0.6
-83	84.73	15.97652	1.160086	0.172032	0.062075	0.360833	0.103817	0.6
-84	84.73	15.97652	1.107675	0.170406	0.05871	0.344531	0.099127	0.6
-84	84.73	15.97652	1.010341	0.177983	0.055932	0.314256	0.090416	0.6
-84	84.73	15.97652	1.002853	0.170415	0.053157	0.311927	0.089746	0.6
-84	84.73	15.97652	1.017828	0.159117	0.050374	0.316585	0.091086	0.6
-85	84.73	15.97652	0.972904	0.158157	0.04786	0.302612	0.087066	0.6
-85	84.73	15.95916	0.972904	0.152245	0.046071	0.302612	0.087066	0.7
-85	84.73	15.95916	0.927981	0.150527	0.043448	0.288639	0.083046	0.7
-85	84.73	15.97652	0.845621	0.155562	0.040916	0.263022	0.075675	0.7
-86	84.73	15.97652	0.942955	0.127366	0.037356	0.293297	0.084386	0.8
-86	84.73	15.95916	1.025315	0.106479	0.033958	0.318914	0.091756	1.0
-86	84.73	15.95916	1.025315	0.11937	0.038069	0.318914	0.091756	0.9
-86	84.73	15.95916	1.0927	0.107066	0.036389	0.339874	0.097787	1.0
-85	84.73	15.95916	1.100188	0.101429	0.034709	0.342203	0.098457	1.0
-85	84.73	15.95916	1.047777	0.102637	0.033449	0.325901	0.093766	1.0
-85	84.73	15.95916	1.100188	0.089853	0.030748	0.342202	0.098457	1.1
-85	84.73	15.9418	1.145111	0.094575	0.033685	0.356175	0.102477	1.1
-85	84.73	15.9418	1.137624	0.09912	0.035073	0.353847	0.101807	1.0
-85	84.73	15.9418	1.167573	0.097427	0.035382	0.363162	0.104487	1.0
-85	84.73	15.9418	1.160086	0.096527	0.03483	0.360833	0.103817	1.1
-85	84.73	15.9418	1.062752	0.104226	0.034453	0.330558	0.095106	1.0
-85	84.73	15.9418	1.085213	0.101168	0.034149	0.337545	0.097116	1.0
-4	98.93	27.55844	532.7628	0.147547	24.45009	165.7105	24.55647	0.8
-4	98.93	27.54108	519.3456	0.134006	21.64699	161.5372	23.93803	0.9
-4	98.93	27.55844	469.5104	0.126176	18.42637	146.0366	21.64099	1.0
-5	98.93	27.54108	452.2598	0.117261	16.49527	140.6709	20.84587	1.1
-5	98.93	27.54108	454.1765	0.110639	15.62964	141.267	20.93421	1.1
-5	98.93	27.52372	479.0941	0.123427	18.39279	149.0175	22.08273	1.0
-5	98.93	27.48899	481.0109	0.123654	18.5003	149.6136	22.17108	1.0
-6	98.93	27.47162	584.5147	0.100353	18.24498	181.8075	26.94185	1.2
-6	98.93	27.45426	906.5266	0.062419	17.59997	281.966	41.78424	2.0
-6	98.93	27.45426	492.5113	0.109056	16.70636	153.1908	22.70117	1.1
-6	98.93	27.4369	490.5945	0.103934	15.85978	152.5946	22.61282	1.2
-7	98.93	27.41953	544.2632	0.092415	15.64477	169.2876	25.08655	1.3
-7	98.93	27.40217	663.101	0.076016	15.67836	206.2509	30.5641	1.6
-7	98.93	27.3848	626.6829	0.07933	15.46336	194.9235	28.88549	1.6
-7	98.93	27.36744	573.0143	0.085517	15.24164	178.2304	26.41177	1.4
-7	98.93	27.33271	693.7687	0.070289	15.16773	215.7899	31.97766	1.8
-7	98.93	27.29798	578.7645	0.06933	12.48073	180.0189	26.67681	1.8
-8	98.93	27.26325	599.8486	0.069093	12.8911	186.5769	27.64863	1.8
-8	98.93	27.24589	665.0177	0.073361	15.17445	206.8471	30.65245	1.7
-8	98.93	27.21116	645.8503	0.063243	12.70452	200.8853	29.76897	2.0
-8	98.93	27.21116	630.5164	0.067757	13.28819	196.1158	29.06219	1.8
-9	98.93	27.1938	620.9327	0.069083	13.34228	193.135	28.62045	1.8
-9	98.93	27.17643	605.5988	0.069615	13.11311	188.3655	27.91367	1.8
-9	98.93	27.15907	555.7636	0.073084	12.63358	172.8647	25.61663	1.7
-10	98.93	27.15907	571.0975	0.070619	12.54437	177.6342	26.32341	1.7
-10	98.93	27.1417	655.434	0.062649	12.77205	203.8662	30.21071	2.0
-10	98.93	27.1417	561.5139	0.076646	13.38646	174.6533	25.88168	1.6
-11	98.93	27.12434	507.8452	0.086507	13.66467	157.9602	23.40795	1.4
-11	98.93	27.10698	586.4315	0.073448	13.3972	182.4037	27.0302	1.7
-11	98.93	27.08961	655.434	0.064927	13.23636	203.8662	30.21071	1.9
-11	98.93	27.08961	527.0126	0.079786	13.07865	163.922	24.29142	1.5
-12	98.93	27.07225	567.264	0.072462	12.78532	176.4418	26.14672	1.7
-12	98.93	27.05488	576.8477	0.070248	12.60403	179.4227	26.58846	1.8
-12	98.93	27.02015	686.1018	0.060637	12.94021	213.4051	31.62427	2.0
-13	98.93	26.98543	617.0992	0.067721	12.9986	191.9426	28.44376	1.8
-13	98.93	26.93333	511.6787	0.0769	12.23881	159.1526	23.58464	1.6
-13	98.93	26.91597	490.5945	0.075354	11.49865	152.5946	22.61282	1.6

-13	98.93	26.86388	542.3465	0.0665	11.21804	168.6914	24.9982	1.9
-14	98.93	26.82915	528.9293	0.067252	11.06416	164.5182	24.37977	1.8
-14	98.93	26.77706	511.6787	0.068413	10.88814	159.1525	23.58464	1.8
-14	98.93	26.74233	586.4315	0.061506	11.21891	182.4037	27.0302	2.0
-15	98.93	26.72496	571.0975	0.063624	11.30176	177.6342	26.32341	1.9
-15	98.93	26.7076	536.5963	0.065966	11.00986	166.9029	24.73316	1.9
-15	98.93	26.67287	509.7619	0.065991	10.46332	158.5564	23.49629	1.9
-16	98.93	26.63814	521.2623	0.063532	10.30072	162.1335	24.02638	1.9
-16	98.93	26.56869	513.5954	0.064935	10.37336	159.7487	23.67299	1.9
-16	98.93	26.49923	536.5963	0.062251	10.38989	166.9029	24.73316	2.0
-17	98.93	26.42977	490.5945	0.065867	10.051	152.5945	22.61282	1.9
-17	98.93	26.36031	536.5963	0.058397	9.746689	166.9029	24.73316	2.1
-17	98.93	26.30822	454.1765	0.068267	9.643938	141.2671	20.93421	1.8
-18	98.93	26.23877	406.2581	0.073338	9.267117	126.3625	18.72552	1.7
-18	98.93	26.20404	415.8418	0.069661	9.010233	129.3434	19.16726	1.8
-18	98.93	26.16931	477.1774	0.060524	8.983034	148.4213	21.99439	2.0
-19	98.93	26.13458	527.0126	0.055413	9.083357	163.922	24.29142	2.2
-19	98.93	26.11722	454.1765	0.06319	8.926723	141.267	20.93421	2.0
-19	98.93	26.08249	406.2581	0.069069	8.727748	126.3625	18.72552	1.8
-19	98.93	26.04776	408.1748	0.067647	8.588359	126.9587	18.81387	1.8
-20	98.93	26.0304	406.2581	0.067932	8.584004	126.3625	18.72552	1.8
-20	98.93	25.99567	429.2589	0.063886	8.529913	133.5167	19.78569	1.9
-20	98.93	25.9783	429.2589	0.06461	8.626556	133.5167	19.78569	1.9
-21	98.93	25.96094	398.5912	0.070773	8.774296	123.9778	18.37214	1.7
-21	98.93	25.92621	367.4442	0.077337	8.838785	114.2899	16.93649	1.6
-22	98.93	25.90885	362.1731	0.079093	8.909844	112.6504	16.69353	1.6
-22	98.93	25.87412	375.3507	0.076892	8.977068	116.7491	17.30092	1.6
-22	98.93	25.87412	369.0015	0.078479	9.00739	114.7742	17.00827	1.6
-22	98.93	25.85675	361.5742	0.079703	8.963706	112.464	16.66592	1.5
-23	98.93	25.83939	349.1154	0.081709	8.872632	108.5888	16.09166	1.5
-23	98.93	25.82202	345.2819	0.082656	8.877017	107.3965	15.91497	1.5
-23	98.93	25.7873	334.5002	0.085376	8.882806	104.043	15.41801	1.4
-24	98.93	25.75257	317.4892	0.088844	8.773514	98.75187	14.63393	1.4
-24	98.93	25.68311	301.1969	0.091703	8.591102	93.68431	13.88297	1.3
-24	98.93	25.61365	288.1391	0.094583	8.476803	89.62279	13.2811	1.3
-24	98.93	25.52683	267.055	0.101158	8.402681	83.06475	12.30928	1.2
-25	98.93	25.44001	256.9922	0.104487	8.352176	79.93484	11.84546	1.2
-25	98.93	25.35319	257.9505	0.103851	8.332235	80.23297	11.88963	1.2
-25	98.93	25.28373	272.0865	0.098928	8.372294	84.62976	12.5412	1.2
-26	98.93	25.19691	298.5614	0.090894	8.440831	92.86451	13.7615	1.4
-26	98.93	25.09273	290.6548	0.093331	8.437599	90.40528	13.39706	1.3
-26	98.93	24.98854	269.451	0.099015	8.298482	83.81003	12.41972	1.2
-26	98.93	24.84963	253.6379	0.102035	8.049685	78.89156	11.69085	1.2
-27	98.93	24.58917	236.1476	0.106714	7.838303	73.45136	10.88468	1.2
-27	98.93	24.20715	225.0066	0.109425	7.658241	69.98608	10.37116	1.1
-27	98.93	23.79041	238.9029	0.10257	7.621819	74.30839	11.01168	1.2
-28	98.93	23.44313	240.6999	0.102176	7.649653	74.86727	11.0945	1.2
-28	98.93	23.18267	234.3507	0.105746	7.708077	72.89244	10.80185	1.2
-28	98.93	22.99166	221.7721	0.111145	7.666782	68.98	10.22207	1.1
-28	98.93	22.78329	213.9854	0.112257	7.471626	66.55798	9.863161	1.1
-29	98.93	22.57492	206.1986	0.112321	7.203812	64.13604	9.504246	1.1
-29	98.93	22.38391	199.49	0.11175	6.93401	62.04937	9.195029	1.1
-29	98.93	22.17554	202.4849	0.107607	6.777156	62.98091	9.333072	1.1
-30	98.93	21.98454	203.3235	0.108357	6.852708	63.24172	9.371725	1.1
-30	98.93	21.81089	209.4331	0.108045	7.038282	65.14208	9.653333	1.1
-30	98.93	21.65462	201.7661	0.114424	7.18095	62.75738	9.29994	1.1
-30	98.93	21.5157	194.9378	0.119289	7.232916	60.63345	8.985206	1.0
-31	98.93	21.39415	192.6617	0.120249	7.205963	59.9255	8.880294	1.0
-31	98.93	21.25524	194.5784	0.11797	7.139755	60.52168	8.96864	1.0
-31	98.93	21.15105	193.3804	0.117579	7.072237	60.14902	8.913421	1.0
-32	98.93	21.06423	188.4688	0.120024	7.035967	58.62133	8.687032	1.0
-32	98.93	20.97741	186.7916	0.121412	7.054007	58.09966	8.609726	1.0
-32	98.93	20.89059	181.5206	0.125157	7.066375	56.46018	8.366771	1.0
-33	98.93	20.76904	167.6243	0.135107	7.044162	52.13785	7.726253	0.9
-33	98.93	20.68222	161.3949	0.138677	6.961632	50.20027	7.439124	0.9
-33	98.93	20.5954	162.3532	0.13633	6.884456	50.49835	7.483294	0.9
-33	98.93	20.50858	162.9522	0.13503	6.843934	50.68466	7.510904	0.9
-34	98.93	20.42176	163.671	0.13457	6.850699	50.90822	7.544035	0.9
-34	98.93	20.3523	164.9887	0.133562	6.854129	51.31811	7.604771	0.9
-34	98.93	20.28284	163.5512	0.134356	6.834819	50.87096	7.538513	0.9
-35	98.93	20.24812	156.4832	0.13902	6.766464	48.67256	7.21273	0.9

-35	98.93	20.23075	152.0508	0.140817	6.659781	47.29387	7.008429	0.9
-35	98.93	20.19602	149.2955	0.141526	6.572029	46.43687	6.88143	0.9
-35	98.93	20.16129	143.1859	0.146503	6.524712	44.53652	6.599822	0.8
-36	98.93	20.14393	136.8367	0.15307	6.514901	42.56166	6.30717	0.8
-36	98.93	20.12657	132.4042	0.157436	6.483707	41.18302	6.102864	0.8
-36	98.93	20.1092	127.6124	0.160754	6.380748	39.69255	5.881998	0.8
-37	98.93	20.09184	125.456	0.160296	6.255053	39.02184	5.782603	0.8
-37	98.93	20.09184	127.1332	0.155858	6.163171	39.5435	5.85991	0.8
-37	98.93	20.05711	130.0083	0.151786	6.137895	40.43777	5.992431	0.8
-37	98.93	20.03975	130.6073	0.15246	6.193549	40.62409	6.020041	0.8
-38	98.93	20.00502	131.0864	0.154313	6.291808	40.7731	6.042124	0.8
-38	98.93	19.97029	127.852	0.162005	6.442455	39.76706	5.893041	0.8
-38	98.93	19.93556	121.9819	0.173527	6.583818	37.94126	5.622473	0.7
-39	98.93	19.88347	116.7109	0.183484	6.660805	36.30177	5.379518	0.7
-39	98.93	19.84874	112.5181	0.190952	6.682876	34.99762	5.186261	0.6
-39	98.93	19.79665	112.8774	0.192641	6.763517	35.10938	5.202822	0.6
-39	98.93	19.72719	112.5181	0.196268	6.868925	34.99761	5.186261	0.6
-40	98.93	19.6751	110.3617	0.201627	6.921245	34.32692	5.086867	0.6
-40	98.93	19.60564	107.247	0.208003	6.938603	33.35812	4.943302	0.6
-40	98.93	19.55355	104.3719	0.215091	6.982667	32.46384	4.810781	0.6
-41	98.93	19.50146	102.2156	0.221496	7.042041	31.79314	4.711391	0.6
-41	98.93	19.44936	100.6582	0.230173	7.206412	31.30875	4.639606	0.5
-41	98.93	19.39727	98.50191	0.245404	7.518701	30.63803	4.540217	0.5
-41	98.93	19.34518	98.8613	0.259038	7.965367	30.74981	4.556782	0.5
-42	98.93	19.29309	99.81966	0.27417	8.512392	31.0479	4.600956	0.5
-42	98.93	19.24099	97.54354	0.30046	9.115926	30.33995	4.496043	0.4
-42	98.93	19.1889	93.82986	0.331772	9.682705	29.18484	4.32487	0.4
-42	98.93	19.13681	91.79333	0.357277	10.20077	28.5514	4.231001	0.3
-43	98.93	19.10208	91.43394	0.375146	10.66901	28.43962	4.214435	0.3
-43	98.93	19.06735	89.99638	0.401101	11.22782	27.99248	4.148174	0.3
-43	98.93	19.03262	89.03802	0.431296	11.94448	27.69439	4.104001	0.3
-44	98.93	19.01526	87.84006	0.464572	12.69293	27.32177	4.048784	0.3
-44	98.93	18.98053	86.4025	0.493913	13.27372	26.87464	3.982523	0.2
-44	98.93	18.96317	85.20454	0.513917	13.61983	26.50202	3.927306	0.2
-44	98.93	18.92844	84.24617	0.526057	13.78475	26.20393	3.883132	0.2
-45	98.93	18.91107	81.37106	0.541492	13.70497	25.30966	3.75061	0.2
-45	98.93	18.89371	77.298	0.556798	13.38696	24.04277	3.562872	0.2
-45	98.93	18.87634	75.50105	0.54571	12.81538	23.48385	3.480046	0.2
-46	98.93	18.85898	75.50105	0.513279	12.05376	23.48385	3.480046	0.2
-46	98.93	18.85898	75.74065	0.480968	11.33082	23.55837	3.49109	0.3
-46	98.93	18.85898	74.42289	0.458931	10.62357	23.1485	3.43035	0.3
-46	98.93	18.84162	72.62595	0.436668	9.864137	22.58957	3.347525	0.3
-47	98.93	18.84162	70.46962	0.414317	9.081366	21.91887	3.248134	0.3
-47	98.93	18.84162	68.43308	0.393099	8.367283	21.28542	3.154264	0.3
-47	98.93	18.82425	67.11533	0.372202	7.769913	20.87555	3.093525	0.3
-48	98.93	18.82425	66.63615	0.353574	7.328357	20.7265	3.071439	0.3
-48	98.93	18.80689	66.39655	0.341328	7.049104	20.65199	3.060395	0.4
-48	98.93	18.78952	66.39655	0.331803	6.852388	20.65198	3.060395	0.4
-48	98.93	18.77216	65.67777	0.325745	6.654446	20.42841	3.027264	0.4
-49	98.93	18.7548	64.71941	0.318085	6.403152	20.13032	2.983091	0.4
-49	98.93	18.72007	64.12042	0.307257	6.127933	19.94402	2.955482	0.4
-49	98.93	18.7027	63.40165	0.296772	5.852481	19.72046	2.922352	0.4
-50	98.93	18.66797	62.32348	0.288821	5.598815	19.3851	2.872656	0.4
-50	98.93	18.63325	60.64634	0.283729	5.3521	18.86344	2.795352	0.4
-50	98.93	18.59852	59.68797	0.275216	5.109484	18.56534	2.751179	0.4
-50	98.93	18.58115	58.96919	0.267104	4.899156	18.34178	2.718048	0.5
-51	98.93	18.54642	58.60981	0.25803	4.703892	18.23	2.701483	0.5
-51	98.93	18.5117	57.65144	0.251585	4.511402	17.93191	2.657309	0.5
-51	98.93	18.47697	56.69307	0.246823	4.352435	17.63381	2.613136	0.5
-52	98.93	18.44224	55.7347	0.243241	4.21675	17.33572	2.568962	0.5
-52	98.93	18.40751	55.01592	0.238962	4.089159	17.11215	2.535831	0.5
-52	98.93	18.39015	54.29715	0.233816	3.948821	16.88858	2.502701	0.5
-52	98.93	18.35542	53.57837	0.230431	3.840131	16.66502	2.469571	0.5
-53	98.93	18.33805	52.97939	0.227923	3.755871	16.47871	2.441962	0.5
-53	98.93	18.30333	52.14082	0.227578	3.690838	16.21788	2.40331	0.5
-53	98.93	18.28596	51.54184	0.225327	3.612342	16.03157	2.375702	0.5
-54	98.93	18.2686	51.30224	0.221139	3.528732	15.95705	2.364658	0.6
-54	98.93	18.25123	51.06265	0.216082	3.431932	15.88252	2.353614	0.6
-54	98.93	18.23387	50.70326	0.211612	3.337282	15.77074	2.337049	0.6
-54	98.93	18.21651	49.6251	0.209889	3.23972	15.43539	2.287354	0.6
-55	98.93	18.18178	48.54693	0.208132	3.1428	15.10004	2.237658	0.6

-55	98.93	18.16441	47.82816	0.205732	3.060559	14.87647	2.204528	0.6
-55	98.93	18.14705	47.22918	0.20439	3.002529	14.69017	2.17692	0.6
-56	98.93	18.12968	46.5104	0.204782	2.962494	14.4666	2.143789	0.6
-56	98.93	18.11232	45.91142	0.205915	2.940528	14.28028	2.11618	0.6
-56	98.93	18.09496	45.43223	0.206505	2.918169	14.13124	2.094093	0.6
-56	98.93	18.07759	45.19264	0.205606	2.890145	14.05672	2.08305	0.6
-57	98.93	18.06023	44.95305	0.203238	2.84171	13.9822	2.072007	0.6
-57	98.93	18.04286	44.35407	0.202238	2.790048	13.79589	2.044398	0.6
-57	98.93	18.0255	43.63529	0.200701	2.723972	13.57232	2.011267	0.6
-58	98.93	18.00813	43.03631	0.199002	2.663843	13.38602	1.983659	0.6
-58	98.93	18.00813	42.19774	0.198317	2.602946	13.12518	1.945007	0.6
-58	98.93	17.99077	41.71856	0.197337	2.560666	12.97614	1.92292	0.6
-58	98.93	17.97341	41.11957	0.197108	2.520978	12.78983	1.895311	0.6
-59	98.93	17.95604	40.76019	0.197166	2.499679	12.67805	1.878746	0.6
-59	98.93	17.93868	40.87998	0.194788	2.476796	12.71531	1.884268	0.6
-59	98.93	17.93868	40.87998	0.193301	2.457875	12.71531	1.884268	0.6
-60	98.93	17.92131	40.52059	0.19352	2.439039	12.60352	1.867703	0.6
-60	98.93	17.90395	39.80182	0.195589	2.421381	12.37996	1.834573	0.6
-60	98.93	17.88659	39.20284	0.196781	2.399482	12.19365	1.806964	0.6
-61	98.93	17.86922	38.24447	0.19948	2.372925	11.89556	1.76279	0.6
-61	98.93	17.86922	37.2861	0.202302	2.346195	11.59747	1.718616	0.6
-61	98.93	17.85186	36.68712	0.202762	2.313753	11.41116	1.691008	0.6
-61	98.93	17.85186	36.80692	0.199194	2.280453	11.44842	1.69653	0.6
-62	98.93	17.83449	36.56732	0.196727	2.237554	11.3739	1.685486	0.6
-62	98.93	17.83449	36.32773	0.193485	2.186257	11.29937	1.674442	0.6
-62	98.93	17.83449	35.96834	0.190149	2.127311	11.1876	1.657877	0.6
-62	98.93	17.81713	35.48915	0.187566	2.07046	11.03855	1.63579	0.7
-63	98.93	17.81713	34.89017	0.186918	2.028481	10.85224	1.608181	0.7
-63	98.93	17.79976	34.53079	0.18556	1.993003	10.74046	1.591617	0.7
-63	98.93	17.79976	33.93181	0.187131	1.975011	10.55415	1.564008	0.7
-63	98.93	17.7824	32.97344	0.191594	1.965002	10.25606	1.519834	0.6
-64	98.93	17.7824	32.61405	0.193056	1.958412	10.14427	1.503269	0.6
-64	98.93	17.76504	32.37446	0.193561	1.949115	10.06975	1.492226	0.6
-64	98.93	17.74767	32.25466	0.192818	1.934449	10.03249	1.486704	0.6
-64	98.93	17.74767	32.37446	0.189784	1.911073	10.06975	1.492226	0.7
-65	98.93	17.73031	32.49426	0.186773	1.887719	10.10702	1.497748	0.7
-65	98.93	17.73031	32.49426	0.183951	1.859191	10.10701	1.497748	0.7
-65	98.93	17.73031	32.37446	0.18236	1.836321	10.06975	1.492226	0.7
-65	98.93	17.71294	32.01507	0.181591	1.808275	9.95797	1.47566	0.7
-66	98.93	17.71294	31.29629	0.183415	1.78543	9.734397	1.44253	0.7
-66	98.93	17.69558	30.57752	0.18484	1.757982	9.510832	1.4094	0.7
-66	98.93	17.69558	29.85874	0.187049	1.737176	9.287261	1.376269	0.7
-67	98.93	17.67822	29.37955	0.188236	1.720145	9.138216	1.354182	0.7
-67	98.93	17.67822	29.02017	0.187862	1.695721	9.026435	1.337617	0.7
-67	98.93	17.66085	28.78057	0.186723	1.671527	8.951909	1.326574	0.7
-67	98.93	17.66085	28.42119	0.186102	1.645166	8.840127	1.310009	0.7
-68	98.93	17.64349	28.0618	0.186117	1.624492	8.728342	1.293444	0.7
-68	98.93	17.64349	27.82221	0.185207	1.602745	8.653818	1.2824	0.7
-68	98.93	17.62612	27.58261	0.184123	1.579642	8.579295	1.271356	0.7
-68	98.93	17.62612	27.46282	0.183147	1.564452	8.542036	1.265835	0.7
-69	98.93	17.62612	27.34302	0.181065	1.539918	8.504773	1.260313	0.7
-69	98.93	17.62612	27.34302	0.177558	1.510094	8.504776	1.260313	0.7
-69	98.93	17.60876	27.22322	0.17395	1.47292	8.46751	1.254791	0.7
-69	98.93	17.59139	26.86384	0.171025	1.429037	8.355727	1.238226	0.7
-70	98.93	17.59139	26.50445	0.168808	1.391641	8.243942	1.221661	0.7
-70	98.93	17.57403	26.02526	0.167435	1.355366	8.094897	1.199574	0.7
-70	98.93	17.57403	25.54608	0.167631	1.33197	7.945853	1.177487	0.7
-70	98.93	17.55667	25.18669	0.167134	1.309336	7.83407	1.160922	0.7
-71	98.93	17.5393	24.9471	0.165229	1.282106	7.759549	1.149879	0.7
-71	98.93	17.52194	24.70751	0.163819	1.258952	7.685024	1.138835	0.8
-71	98.93	17.52194	24.34812	0.163763	1.240215	7.573237	1.12227	0.8
-71	98.93	17.50457	24.34812	0.15993	1.211189	7.573239	1.12227	0.8
-72	98.93	17.48721	24.34812	0.156971	1.188778	7.573238	1.12227	0.8
-72	98.93	17.46984	24.34812	0.154059	1.166724	7.573241	1.12227	0.8
-72	98.93	17.45248	23.95129	0.153077	1.140395	7.449812	1.103979	0.8
-73	98.93	17.43512	23.7117	0.1514	1.116618	7.375286	1.092936	0.8
-73	98.93	17.41775	23.3598	0.150584	1.094116	7.265831	1.076716	0.8
-73	98.93	17.40039	22.90308	0.150874	1.074789	7.123773	1.055664	0.8
-73	98.93	17.40039	22.61856	0.150305	1.057438	7.035278	1.04255	0.8
-74	98.93	17.38302	22.46882	0.148799	1.039911	6.988698	1.035648	0.8
-74	98.93	17.36566	22.29661	0.147301	1.021553	6.93514	1.027711	0.8

-74	98.93	17.36566	22.19179	0.145104	1.001588	6.902536	1.022879	0.9
-75	98.93	17.3483	21.80994	0.144997	0.983622	6.783764	1.005279	0.9
-75	98.93	17.33093	21.40563	0.145484	0.968636	6.658008	0.986643	0.8
-75	98.93	17.31357	21.03127	0.146052	0.955407	6.541565	0.969388	0.8
-75	98.93	17.2962	20.94142	0.144916	0.943928	6.513619	0.965246	0.9
-76	98.93	17.2962	20.99383	0.142852	0.93281	6.529921	0.967662	0.9
-76	98.93	17.27884	20.79916	0.142846	0.924123	6.469368	0.958689	0.9
-76	98.93	17.26147	20.52213	0.143535	0.916212	6.383201	0.94592	0.9
-77	98.93	17.24411	20.28254	0.143927	0.907991	6.308682	0.934877	0.9
-77	98.93	17.22675	19.92315	0.145233	0.899993	6.196894	0.918311	0.8
-77	98.93	17.20938	19.61617	0.146387	0.893166	6.101414	0.904162	0.8
-78	98.93	17.19202	19.29422	0.1482	0.889387	6.001276	0.889322	0.8
-78	98.93	17.15729	19.18191	0.148881	0.888272	5.966342	0.884146	0.8
-78	98.93	17.13993	18.96478	0.150908	0.890177	5.898807	0.874138	0.8
-78	98.93	17.12256	18.71021	0.15334	0.892381	5.819624	0.862404	0.8
-79	98.93	17.08783	18.51555	0.155042	0.892897	5.759075	0.853431	0.8
-79	98.93	17.07047	18.34334	0.156143	0.890878	5.705513	0.845494	0.8
-79	98.93	17.0531	18.08129	0.157524	0.885917	5.624004	0.833415	0.8
-80	98.93	17.03574	17.8941	0.158122	0.880074	5.565782	0.824787	0.8
-80	98.93	17.01838	17.69195	0.158865	0.874216	5.502903	0.815469	0.8
-80	98.93	17.00101	17.39246	0.160302	0.867192	5.40975	0.801665	0.8
-81	98.93	16.98365	17.01061	0.1629	0.861899	5.290978	0.784065	0.8
-81	98.93	16.96628	16.58383	0.165781	0.855137	5.158236	0.764393	0.7
-81	98.93	16.94892	16.1945	0.168702	0.849773	5.037137	0.746448	0.7
-81	98.93	16.93155	15.94742	0.170041	0.84345	4.960287	0.735059	0.7
-82	98.93	16.91419	15.79767	0.170034	0.835496	4.913707	0.728157	0.7
-82	98.93	16.89683	15.61049	0.170383	0.82729	4.855486	0.719529	0.7
-82	98.93	16.87946	15.3709	0.171465	0.819769	4.780963	0.708486	0.7
-82	98.93	16.8621	15.07141	0.173173	0.811801	4.687811	0.694682	0.7
-83	98.93	16.82737	14.77941	0.1749	0.804012	4.596987	0.681223	0.7
-83	98.93	16.82737	14.50986	0.176214	0.795279	4.513149	0.668798	0.7
-83	98.93	16.81001	14.21037	0.177387	0.784049	4.419996	0.654994	0.7
-84	98.93	16.81001	13.97827	0.177367	0.771157	4.3478	0.644296	0.7
-84	98.93	16.79264	13.73119	0.176371	0.753271	4.270951	0.632907	0.7
-84	98.93	16.77528	13.30442	0.176866	0.731906	4.138207	0.613236	0.7
-84	98.93	16.77528	12.97498	0.17535	0.707668	4.035738	0.598052	0.7
-85	98.93	16.75791	12.62308	0.17446	0.684979	3.926282	0.581832	0.7
-85	98.93	16.74055	12.35353	0.172556	0.663037	3.842443	0.569407	0.7
-85	98.93	16.74055	12.00912	0.172086	0.642796	3.735317	0.553533	0.7
-85	98.93	16.72318	11.67968	0.172255	0.625776	3.632847	0.538348	0.7
-86	98.93	16.72318	11.40265	0.172399	0.611446	3.546682	0.525579	0.7
-86	98.93	16.70582	11.18552	0.172091	0.59873	3.479145	0.515571	0.7
-86	98.93	16.70582	10.9609	0.172311	0.587456	3.40928	0.505217	0.7
-87	98.93	16.68846	10.78121	0.171719	0.575842	3.353388	0.496935	0.7
-87	98.93	16.68846	10.69136	0.169305	0.563014	3.325443	0.492793	0.7
-87	98.93	16.67109	10.54162	0.16773	0.549964	3.278865	0.485892	0.7
-87	98.93	16.67109	10.33946	0.166384	0.535089	3.215986	0.476573	0.7
-88	98.93	16.65373	10.06992	0.165825	0.519388	3.13215	0.46415	0.7
-88	98.93	16.65373	9.755456	0.165844	0.503226	3.034337	0.449655	0.7
-88	98.93	16.63636	9.448479	0.16645	0.489172	2.938855	0.435506	0.7
-88	98.93	16.63636	9.208886	0.165405	0.473775	2.864334	0.424462	0.7
-89	98.93	16.63636	8.916883	0.165834	0.459942	2.773506	0.411003	0.7
-89	98.93	16.63636	8.647343	0.166725	0.448435	2.68967	0.398579	0.7
-89	98.93	16.63636	8.422725	0.166725	0.436788	2.619805	0.388226	0.7
-90	98.93	16.619	8.280467	0.165323	0.425798	2.575556	0.381669	0.7
-90	98.93	16.63636	8.100773	0.164488	0.414454	2.519665	0.373386	0.8
-90	98.93	16.619	7.966002	0.163101	0.404123	2.477745	0.367174	0.8
-90	98.93	16.619	7.763846	0.163273	0.394283	2.414866	0.357856	0.8
-91	98.93	16.619	7.636563	0.161281	0.383086	2.375277	0.35199	0.8
-91	98.93	16.619	7.516767	0.159829	0.373682	2.338015	0.346468	0.8
-91	98.93	16.60163	7.381996	0.157505	0.361647	2.296097	0.340256	0.8
-92	98.93	16.60163	7.142404	0.155564	0.345596	2.221573	0.329213	0.8
-92	98.93	16.60163	7.007633	0.150998	0.329124	2.179654	0.323001	0.8
-92	98.93	16.58427	6.827939	0.147644	0.313561	2.123762	0.314718	0.8
-92	98.93	16.58427	6.543423	0.146889	0.298957	2.035266	0.301604	0.8
-92	98.93	16.58427	6.393678	0.144197	0.286763	1.988689	0.294702	0.9
-93	98.93	16.58427	6.199009	0.142642	0.275034	1.928141	0.285729	0.9
-93	98.93	16.56691	6.049264	0.140629	0.264601	1.881563	0.278827	0.9
-93	98.93	16.56691	5.929468	0.13779	0.254127	1.844301	0.273305	0.9
-94	98.93	16.56691	5.764749	0.136093	0.244024	1.793068	0.265713	0.9
-94	98.93	16.56691	5.742287	0.12975	0.231744	1.786081	0.264677	1.0

-94	98.93	16.56691	6.543423	0.105819	0.215369	2.035267	0.301604	1.2
-94	98.93	16.56691	6.850401	0.091917	0.195852	2.130749	0.315753	1.3
-94	98.93	16.56691	6.895324	0.103117	0.221158	2.144722	0.317824	1.2
-94	98.93	16.54954	6.872862	0.098151	0.20982	2.137736	0.316789	1.3
-94	98.93	16.54954	6.790503	0.095365	0.201421	2.112118	0.312992	1.3
-94	98.93	16.53218	6.655732	0.093644	0.193863	2.070199	0.306781	1.3
-95	98.93	16.53218	6.505987	0.077512	0.156855	2.023622	0.299878	1.6
-95	98.93	16.51481	6.468551	0.078025	0.156985	2.011978	0.298153	1.6
-95	98.93	16.51481	6.318806	0.0821	0.161359	1.965401	0.291251	1.5
-95	98.93	16.49745	6.281369	0.084712	0.165506	1.953757	0.289525	1.5
-95	98.93	16.49745	6.184035	0.085619	0.164687	1.923482	0.285039	1.4
-95	98.93	16.49745	6.139112	0.084581	0.161508	1.909509	0.282968	1.5
-3	118.02	26.88124	952.5283	0.143146	42.41052	296.2744	50.24925	0.7
-3	118.02	26.88124	758.9378	0.163483	38.59188	236.0601	40.03667	0.6
-4	118.02	26.88124	1086.7	0.103198	34.88175	338.0071	57.32729	0.9
-4	118.02	26.88124	693.7687	0.149615	32.28546	215.7899	36.59876	0.6
-4	118.02	26.88124	768.5215	0.133417	31.89218	239.041	40.54224	0.7
-4	118.02	26.88124	737.8537	0.131093	30.08611	229.502	38.9244	0.7
-4	118.02	26.88124	686.1018	0.123992	26.46053	213.4052	36.19431	0.8
-5	118.02	26.88124	785.7722	0.099868	24.4084	244.4066	41.45228	1.0
-5	118.02	26.86388	743.6039	0.099882	23.10166	231.2906	39.22775	1.0
-5	118.02	26.86388	954.4451	0.073987	21.96469	296.8706	50.35037	1.3
-5	118.02	26.84651	703.3524	0.09571	20.93864	218.7708	37.10434	1.0
-5	118.02	26.84651	944.8614	0.07006	20.58978	293.8897	49.8448	1.4
-6	118.02	26.82915	741.6872	0.08369	19.30672	230.6944	39.12664	1.1
-6	118.02	26.82915	578.7645	0.10504	18.90915	180.0189	30.53188	0.9
-6	118.02	26.82915	649.6838	0.090081	18.20346	202.0777	34.27313	1.1
-7	118.02	26.81178	720.6031	0.079457	17.80914	224.1364	38.01437	1.2
-7	118.02	26.81178	693.7687	0.082462	17.79453	215.7898	36.59876	1.2
-7	118.02	26.81178	799.1893	0.071008	17.65113	248.5799	42.16008	1.3
-7	118.02	26.79442	699.519	0.080535	17.52265	217.5784	36.90211	1.2
-8	118.02	26.79442	597.9319	0.085786	15.95456	185.9807	31.54303	1.1
-8	118.02	26.79442	617.0992	0.078811	15.12724	191.9426	32.55418	1.2
-8	118.02	26.79442	693.7687	0.066842	14.42378	215.7898	36.59876	1.4
-8	118.02	26.79442	772.355	0.061969	14.88708	240.2333	40.74447	1.5
-8	118.02	26.79442	640.1001	0.079998	15.9273	199.0967	33.76755	1.2
-8	118.02	26.79442	628.5997	0.082955	16.21926	195.5196	33.16087	1.2
-8	118.02	26.77706	665.0177	0.076857	15.89767	206.8471	35.08205	1.2
-9	118.02	26.77706	571.0975	0.085765	15.2348	177.6342	30.12742	1.1
-9	118.02	26.77706	599.8486	0.078176	14.58577	186.5769	31.64415	1.2
-9	118.02	26.77706	599.8486	0.077093	14.38375	186.5769	31.64415	1.2
-9	118.02	26.77706	701.4357	0.065911	14.38003	218.1746	37.00323	1.5
-10	118.02	26.77706	665.0177	0.069236	14.32133	206.8471	35.08205	1.4
-10	118.02	26.77706	534.6795	0.084443	14.04344	166.3067	28.20624	1.1
-10	118.02	26.77706	555.7636	0.078339	13.54201	172.8647	29.3185	1.2
-10	118.02	26.77706	527.0126	0.080788	13.24296	163.922	27.80179	1.2
-11	118.02	26.77706	481.0109	0.086115	12.88391	149.6136	25.37503	1.1
-11	118.02	26.77706	505.9285	0.079007	12.43281	157.364	26.68953	1.2
-11	118.02	26.75969	555.7636	0.072658	12.56002	172.8647	29.3185	1.3
-11	118.02	26.75969	513.5954	0.080301	12.82798	159.7487	27.09398	1.2
-11	118.02	26.75969	530.8461	0.078231	12.91712	165.1144	28.00402	1.2
-12	118.02	26.75969	557.6804	0.071053	12.32489	173.4609	29.41962	1.3
-12	118.02	26.75969	538.513	0.069923	11.71202	167.4991	28.40847	1.4
-12	118.02	26.75969	484.8443	0.077654	11.71073	150.806	25.57726	1.2
-12	118.02	26.77706	469.5104	0.079862	11.66277	146.0365	24.76834	1.2
-12	118.02	26.77706	486.7611	0.077791	11.77776	151.4022	25.67838	1.2
-12	118.02	26.75969	482.9276	0.080859	12.14583	150.2098	25.47615	1.2
-12	118.02	26.75969	498.2615	0.079144	12.2656	154.9793	26.28506	1.2
-13	118.02	26.75969	442.6761	0.08688	11.96252	137.69	23.35274	1.1
-13	118.02	26.75969	406.2581	0.091667	11.58322	126.3625	21.43156	1.0
-13	118.02	26.75969	448.4263	0.079607	11.10352	139.4785	23.65608	1.2
-13	118.02	26.75969	448.4263	0.077179	10.76483	139.4785	23.65608	1.2
-14	118.02	26.75969	458.01	0.074205	10.5712	142.4594	24.16165	1.3
-14	118.02	26.75969	404.3414	0.082299	10.3505	125.7664	21.33045	1.2
-14	118.02	26.75969	375.7101	0.086267	10.08125	116.8609	19.82004	1.1
-14	118.02	26.75969	376.9081	0.084776	9.93857	117.2335	19.88324	1.1
-14	118.02	26.75969	350.9123	0.088793	9.691574	109.1478	18.51187	1.1
-15	118.02	26.75969	355.8239	0.084174	9.315946	110.6755	18.77098	1.1
-15	118.02	26.75969	374.033	0.078358	9.116068	116.3392	19.73157	1.2
-15	118.02	26.75969	391.4034	0.075104	9.143349	121.7421	20.64792	1.3
-15	118.02	26.75969	431.4153	0.068976	9.255751	134.1874	22.75869	1.4

-16	118.02	26.75969	402.4246	0.073786	9.235754	125.1701	21.22933	1.3
-16	118.02	26.74233	341.089	0.085257	9.045112	106.0923	17.99366	1.1
-16	118.02	26.74233	329.1094	0.087481	8.955114	102.3662	17.36169	1.1
-17	118.02	26.74233	346.959	0.082587	8.912635	107.9182	18.30332	1.2
-17	118.02	26.72496	324.4373	0.08646	8.724974	100.913	17.11522	1.1
-17	118.02	26.72496	334.1408	0.082651	8.589996	103.9312	17.62711	1.2
-18	118.02	26.7076	331.6251	0.082482	8.507955	103.1487	17.4944	1.2
-18	118.02	26.65551	328.8698	0.081925	8.380264	102.2917	17.34905	1.2
-18	118.02	26.63814	343.8443	0.077588	8.297964	106.9494	18.13901	1.2
-18	118.02	26.62078	333.5419	0.07792	8.08377	103.7448	17.59552	1.2
-18	118.02	26.58605	299.7594	0.082657	7.706664	93.23715	15.81337	1.2
-18	118.02	26.56869	283.3473	0.08418	7.418961	88.13234	14.94758	1.1
-18	118.02	26.53396	285.0244	0.081357	7.212646	88.65401	15.03605	1.2
-19	118.02	26.51659	292.6914	0.076179	6.935272	91.03876	15.44051	1.3
-19	118.02	26.48186	309.1035	0.070165	6.745874	96.14356	16.30631	1.4
-19	118.02	26.42977	316.0516	0.067509	6.636462	98.30473	16.67284	1.4
-19	118.02	26.41241	303.2335	0.069812	6.584466	94.31776	15.99664	1.4
-19	118.02	26.37768	288.1391	0.072044	6.45675	89.62277	15.20036	1.3
-19	118.02	26.36031	284.0661	0.070237	6.205861	88.3559	14.9855	1.4
-19	118.02	26.32559	277.2377	0.069856	6.02386	86.23203	14.62527	1.4
-19	118.02	26.30822	280.9514	0.068787	6.011077	87.38713	14.82118	1.4
-19	118.02	26.29086	297.3634	0.066903	6.187968	92.49193	15.68698	1.4
-19	118.02	26.27349	299.1604	0.068567	6.380191	93.05082	15.78177	1.4
-20	118.02	26.25613	300.7177	0.069078	6.461217	93.53525	15.86393	1.4
-20	118.02	26.2214	305.6294	0.067369	6.40434	95.06296	16.12304	1.4
-20	118.02	26.18667	285.863	0.070563	6.274126	88.91481	15.08029	1.4
-20	118.02	26.16931	280.9514	0.070554	6.165482	87.38715	14.82118	1.4
-21	118.02	26.13458	289.2173	0.068569	6.168355	89.95818	15.25724	1.4
-21	118.02	26.08249	291.3736	0.067985	6.161448	90.62886	15.37099	1.4
-21	118.02	26.04776	282.9879	0.069784	6.142431	88.02056	14.92862	1.4
-22	118.02	26.01303	276.0397	0.07115	6.108873	85.85942	14.56208	1.3
-22	118.02	25.96094	253.7577	0.07659	6.045127	78.92882	13.38662	1.2
-22	118.02	25.90885	246.6897	0.077511	5.947413	76.73034	13.01376	1.2
-22	118.02	25.85675	254.9556	0.074422	5.901764	79.30143	13.44981	1.3
-23	118.02	25.80466	265.6175	0.071414	5.900057	82.61767	14.01227	1.3
-23	118.02	25.75257	263.3413	0.07277	5.960602	81.90968	13.89219	1.3
-23	118.02	25.70048	261.9038	0.073656	6.000199	81.46254	13.81636	1.3
-23	118.02	25.64838	247.2887	0.077408	5.953984	76.91665	13.04536	1.2
-24	118.02	25.59629	239.0227	0.078601	5.843604	74.34562	12.6093	1.2
-24	118.02	25.5442	232.1944	0.079593	5.748365	72.22174	12.24908	1.2
-24	118.02	25.4921	236.2674	0.076994	5.658176	73.48865	12.46394	1.2
-24	118.02	25.44001	230.038	0.078236	5.597873	71.55104	12.13532	1.2
-25	118.02	25.40528	225.965	0.078891	5.544793	70.28415	11.92046	1.2
-25	118.02	25.35319	223.9284	0.078799	5.488387	69.65071	11.81302	1.2
-25	118.02	25.31846	218.5376	0.079834	5.42662	67.9739	11.52863	1.2
-26	118.02	25.28373	213.3864	0.081551	5.412653	66.3717	11.25689	1.2
-26	118.02	25.24901	216.5011	0.081106	5.461746	67.34049	11.4212	1.2
-26	118.02	25.21428	217.699	0.082027	5.554289	67.71312	11.4844	1.2
-27	118.02	25.19691	215.7823	0.08406	5.641855	67.11692	11.38328	1.1
-27	118.02	25.16218	209.4331	0.087704	5.713243	65.14207	11.04834	1.1
-27	118.02	25.14482	204.761	0.0904	5.757458	63.6889	10.80187	1.1
-28	118.02	25.11009	204.5215	0.091437	5.816677	63.61437	10.78924	1.0
-28	118.02	25.07536	205.0006	0.092421	5.89305	63.76342	10.81451	1.0
-28	118.02	25.04064	203.4433	0.094244	5.963687	63.27902	10.73236	1.0
-29	118.02	25.00591	196.4951	0.098878	6.043222	61.11783	10.36581	1.0
-29	118.02	24.97118	184.1561	0.107317	6.147118	57.27995	9.714889	0.9
-29	118.02	24.93645	171.6973	0.116685	6.231518	53.40476	9.057643	0.8
-29	118.02	24.90172	164.1502	0.122933	6.276614	51.05728	8.659506	0.8
-30	118.02	24.84963	163.5512	0.122483	6.230835	50.87094	8.627907	0.8
-30	118.02	24.76281	166.5461	0.118353	6.130961	51.80251	8.785899	0.8
-30	118.02	24.67599	169.0618	0.114875	6.040704	52.58501	8.918611	0.8
-30	118.02	24.58917	171.2181	0.11159	5.942786	53.25569	9.032363	0.9
-31	118.02	24.50235	170.2598	0.110987	5.877593	52.95759	8.981809	0.9
-31	118.02	24.41552	171.4577	0.109734	5.852144	53.33022	9.045003	0.9
-31	118.02	24.29397	170.4994	0.110687	5.869973	53.03213	8.994449	0.9
-32	118.02	24.1377	166.4263	0.114219	5.912577	51.76522	8.779579	0.8
-32	118.02	23.8946	160.9157	0.119001	5.956127	50.05123	8.488875	0.8
-32	118.02	23.66886	156.3634	0.122905	5.977519	48.63528	8.248725	0.8
-33	118.02	23.44313	153.1289	0.125492	5.977066	47.62925	8.078094	0.8
-33	118.02	23.25212	148.8163	0.128966	5.969575	46.28783	7.850589	0.7
-33	118.02	23.09584	144.5036	0.133112	5.982924	44.9464	7.623078	0.7

-34	118.02	22.93957	139.7118	0.139111	6.045192	43.45595	7.370294	0.7
-34	118.02	22.78329	130.4875	0.151412	6.145312	40.58683	6.883679	0.6
-34	118.02	22.66174	123.2997	0.161597	6.197442	38.35115	6.504497	0.6
-34	118.02	22.55755	116.9505	0.171289	6.230874	36.3763	6.169554	0.6
-35	118.02	22.45337	110.1221	0.18204	6.235289	34.2524	5.809332	0.5
-35	118.02	22.34918	108.2054	0.182482	6.14164	33.6562	5.708219	0.5
-35	118.02	22.21027	109.6429	0.174514	5.951508	34.10333	5.784053	0.5
-35	118.02	22.10609	109.7627	0.16654	5.68579	34.1406	5.790372	0.6
-36	118.02	21.98454	109.4034	0.158085	5.379445	34.02882	5.771418	0.6
-36	118.02	21.89771	107.6064	0.15152	5.071356	33.4699	5.67662	0.6
-36	118.02	21.79353	105.3303	0.146049	4.784845	32.76194	5.556548	0.7
-37	118.02	21.68934	102.575	0.141912	4.527697	31.90492	5.411196	0.7
-37	118.02	21.58516	97.66334	0.141323	4.293002	30.37721	5.152088	0.7
-37	118.02	21.5157	89.99638	0.146154	4.091217	27.99247	4.747629	0.7
-37	118.02	21.44625	87.84006	0.144297	3.94244	27.32178	4.633875	0.7
-38	118.02	21.37679	88.67863	0.13914	3.837835	27.5826	4.678113	0.7
-38	118.02	21.3247	89.03802	0.135631	3.75622	27.69439	4.697072	0.7
-38	118.02	21.25524	87.84006	0.135	3.688442	27.32177	4.633875	0.7
-38	118.02	21.20315	86.76189	0.134442	3.628103	26.98642	4.576998	0.7
-39	118.02	21.15105	85.44413	0.133966	3.56034	26.57654	4.507481	0.7
-39	118.02	21.11633	84.48576	0.132934	3.493298	26.27846	4.456924	0.7
-39	118.02	21.0816	83.16801	0.133227	3.446397	25.86857	4.387408	0.7
-40	118.02	21.04687	82.08984	0.133726	3.414457	25.53323	4.330531	0.7
-40	118.02	21.01214	81.13147	0.135179	3.411263	25.23514	4.279973	0.7
-40	118.02	20.97741	80.53249	0.136269	3.413379	25.04883	4.248375	0.7
-40	118.02	20.96005	79.57412	0.137713	3.408507	24.75073	4.197818	0.7
-41	118.02	20.94268	77.89698	0.140475	3.403584	24.22907	4.109342	0.7
-41	118.02	20.94268	76.33963	0.143187	3.399921	23.74467	4.027187	0.7
-41	118.02	20.94268	74.90208	0.145901	3.399122	23.29754	3.951351	0.7
-42	118.02	20.92532	73.58432	0.149039	3.411162	22.88767	3.881834	0.6
-42	118.02	20.92532	72.38636	0.152226	3.42737	22.51505	3.818638	0.6
-42	118.02	20.92532	71.42799	0.155443	3.453475	22.21697	3.76808	0.6
-42	118.02	20.90796	70.70921	0.158153	3.478317	21.99339	3.730162	0.6
-43	118.02	20.89059	69.75084	0.161092	3.494947	21.69531	3.679605	0.6
-43	118.02	20.89059	68.67268	0.163561	3.493651	21.35996	3.622728	0.6
-43	118.02	20.87323	67.71431	0.16523	3.48006	21.06186	3.57217	0.6
-44	118.02	20.87323	66.87573	0.16618	3.456707	20.80103	3.527932	0.6
-44	118.02	20.85586	65.67777	0.167997	3.431909	20.42842	3.464736	0.6
-44	118.02	20.85586	64.00063	0.170797	3.400015	19.90676	3.376261	0.6
-44	118.02	20.8385	61.7245	0.174969	3.359187	19.19879	3.256187	0.5
-45	118.02	20.82113	59.56817	0.178532	3.30786	18.52809	3.142433	0.5
-45	118.02	20.82113	57.77123	0.180309	3.240001	17.96917	3.047638	0.5
-45	118.02	20.80377	56.69307	0.178887	3.154461	17.63381	2.990761	0.5
-46	118.02	20.78641	55.6149	0.176696	3.056568	17.29846	2.933884	0.5
-46	118.02	20.76904	54.77633	0.175262	2.986049	17.03763	2.889646	0.5
-46	118.02	20.75168	54.29715	0.173871	2.936434	16.88858	2.864368	0.6
-46	118.02	20.75168	53.93776	0.172412	2.892521	16.7768	2.845409	0.6
-47	118.02	20.73431	54.41694	0.168517	2.852284	16.92584	2.870687	0.6
-47	118.02	20.71695	54.77633	0.164454	2.801901	17.03763	2.889646	0.6
-47	118.02	20.69958	54.53674	0.16203	2.748531	16.9631	2.877007	0.6
-48	118.02	20.68222	53.45857	0.161222	2.680758	16.62776	2.82013	0.6
-48	118.02	20.66486	52.26061	0.161101	2.618714	16.25514	2.756933	0.6
-48	118.02	20.66486	52.14082	0.157981	2.562117	16.21788	2.750614	0.6
-48	118.02	20.64749	51.42204	0.157142	2.513374	15.99431	2.712695	0.6
-49	118.02	20.63013	48.18754	0.164849	2.470792	14.98826	2.542064	0.6
-49	118.02	20.63013	44.71346	0.176172	2.450138	13.90767	2.358794	0.5
-49	118.02	20.61276	43.3957	0.18069	2.43892	13.4978	2.289277	0.5
-50	118.02	20.5954	42.67692	0.18411	2.443915	13.27423	2.251359	0.5
-50	118.02	20.5954	42.55713	0.186393	2.467277	13.23697	2.24504	0.5
-50	118.02	20.57804	42.91652	0.185927	2.481895	13.34875	2.263999	0.5
-50	118.02	20.56067	43.2759	0.185486	2.496738	13.46053	2.282958	0.5
-51	118.02	20.52594	43.3957	0.185745	2.507151	13.4978	2.289277	0.5
-51	118.02	20.50858	43.15611	0.18795	2.522902	13.42328	2.276638	0.5
-51	118.02	20.49121	42.55713	0.192366	2.546339	13.23696	2.24504	0.5
-51	118.02	20.49121	42.07794	0.197428	2.583926	13.08792	2.219761	0.5
-52	118.02	20.47385	41.83835	0.202284	2.632406	13.0134	2.207122	0.5
-52	118.02	20.47385	41.47896	0.208669	2.692165	12.90162	2.188163	0.5
-52	118.02	20.43912	40.4008	0.219037	2.752473	12.56626	2.131286	0.4
-53	118.02	20.38703	38.84345	0.23293	2.814235	12.08187	2.04913	0.4
-53	118.02	20.33494	37.0465	0.247889	2.856406	11.52294	1.954335	0.4
-53	118.02	20.26548	35.36936	0.263164	2.89514	11.00129	1.865859	0.4

-53	118.02	20.19602	33.57242	0.280516	2.929252	10.44237	1.771064	0.3
-54	118.02	20.14393	32.25466	0.295123	2.960823	10.03249	1.701548	0.3
-54	118.02	20.07447	31.77548	0.301274	2.977623	9.883444	1.676269	0.3
-54	118.02	20.00502	32.25466	0.29678	2.977437	10.03249	1.701548	0.3
-55	118.02	19.93556	32.97344	0.288292	2.956743	10.25606	1.739466	0.3
-55	118.02	19.8661	33.21303	0.281392	2.906943	10.33058	1.752105	0.3
-55	118.02	19.79665	32.85364	0.277708	2.837838	10.2188	1.733146	0.3
-55	118.02	19.70983	32.73384	0.270442	2.75351	10.18154	1.726826	0.4
-56	118.02	19.64037	32.37446	0.265435	2.672867	10.06975	1.707868	0.4
-56	118.02	19.57091	31.53588	0.265408	2.603362	9.80892	1.66363	0.4
-56	118.02	19.51882	30.21813	0.270961	2.546774	9.399047	1.594114	0.4
-57	118.02	19.46673	28.90037	0.279566	2.513068	8.989171	1.524597	0.3
-57	118.02	19.41463	27.70241	0.288989	2.490088	8.616557	1.461401	0.3
-57	118.02	19.36254	26.62424	0.299855	2.48316	8.281206	1.404523	0.3
-57	118.02	19.31045	25.66588	0.312086	2.491419	7.983115	1.353966	0.3
-58	118.02	19.25836	25.54608	0.313739	2.492921	7.945853	1.347646	0.3
-58	118.02	19.22363	26.26486	0.304002	2.483516	8.169421	1.385565	0.3
-58	118.02	19.17154	27.22322	0.28983	2.454135	8.467513	1.436122	0.3
-58	118.02	19.10208	27.34302	0.283388	2.41015	8.504772	1.442441	0.3
-59	118.02	19.03262	26.74404	0.283676	2.359746	8.318465	1.410843	0.3
-59	118.02	18.96317	26.38465	0.280781	2.304279	8.206683	1.391884	0.3
-59	118.02	18.89371	26.02526	0.279726	2.264357	8.094899	1.372925	0.3
-60	118.02	18.84162	25.30649	0.284094	2.236197	7.871331	1.335007	0.3
-60	118.02	18.78952	23.89888	0.300218	2.231675	7.433508	1.260751	0.3
-60	118.02	18.73743	22.92554	0.315449	2.249394	7.130762	1.209404	0.3
-61	118.02	18.68534	22.07948	0.335945	2.307137	6.867602	1.164771	0.3
-61	118.02	18.65061	21.21845	0.372516	2.458526	6.599786	1.119349	0.3
-61	118.02	18.61588	20.41731	0.447873	2.84426	6.3506	1.077086	0.2
-62	118.02	18.58115	20.38736	0.518479	3.28782	6.341285	1.075506	0.2
-62	118.02	18.56379	20.76921	0.562517	3.633893	6.460056	1.09565	0.2
-62	118.02	18.52906	21.35322	0.578511	3.842298	6.641705	1.126458	0.2
-62	118.02	18.49433	21.30829	0.594913	3.942922	6.627732	1.124088	0.2
-63	118.02	18.4596	21.04624	0.607703	3.978157	6.546223	1.110264	0.2
-63	118.02	18.42488	20.81413	0.612703	3.966654	6.474029	1.098019	0.2
-63	118.02	18.40751	20.34992	0.622243	3.938571	6.32964	1.073531	0.2
-63	118.02	18.37278	19.74346	0.637062	3.912198	6.141004	1.041538	0.2
-64	118.02	18.33805	18.76263	0.667123	3.893283	5.835927	0.989795	0.1
-64	118.02	18.30333	17.98395	0.692177	3.871848	5.593728	0.948717	0.1
-64	118.02	18.2686	17.32507	0.710029	3.826195	5.388791	0.913959	0.1
-65	118.02	18.23387	16.45655	0.734273	3.758482	5.118645	0.868141	0.1
-65	118.02	18.19914	15.86506	0.745307	3.67784	4.934668	0.836938	0.1
-65	118.02	18.14705	15.61049	0.730709	3.547948	4.855487	0.823509	0.1
-65	118.02	18.11232	15.67039	0.694741	3.386251	4.874118	0.826669	0.1
-66	118.02	18.07759	15.88003	0.650451	3.212787	4.939325	0.837728	0.1
-66	118.02	18.0255	15.99983	0.613132	3.051304	4.976587	0.844048	0.2
-66	118.02	17.97341	15.81265	0.587857	2.891296	4.918366	0.834173	0.2
-66	118.02	17.92131	15.47572	0.570517	2.746222	4.813569	0.816399	0.2
-67	118.02	17.86922	15.34095	0.548411	2.616826	4.77165	0.80929	0.2
-67	118.02	17.81713	14.98156	0.536333	2.499238	4.659865	0.790331	0.2
-67	118.02	17.7824	14.43499	0.536081	2.406928	4.48986	0.761497	0.2
-68	118.02	17.74767	13.79857	0.544206	2.335682	4.291909	0.727924	0.2
-68	118.02	17.69558	13.27447	0.552859	2.282693	4.12889	0.700275	0.2
-68	118.02	17.66085	12.97498	0.551877	2.22723	4.035737	0.684476	0.2
-68	118.02	17.64349	12.67549	0.554739	2.187103	3.942583	0.668677	0.2
-69	118.02	17.60876	12.33107	0.558799	2.143249	3.835457	0.650508	0.2
-69	118.02	17.57403	11.99415	0.564897	2.107437	3.730659	0.632734	0.2
-69	118.02	17.55667	11.91179	0.557836	2.066805	3.705043	0.628389	0.2
-69	118.02	17.5393	12.15887	0.53581	2.026375	3.781894	0.641424	0.2
-70	118.02	17.52194	12.30861	0.515776	1.974631	3.82847	0.649323	0.2
-70	118.02	17.50457	12.18881	0.506652	1.920822	3.791209	0.643003	0.2
-70	118.02	17.48721	11.92676	0.502538	1.864266	3.7097	0.629179	0.2
-71	118.02	17.46984	11.71712	0.496998	1.811306	3.644493	0.61812	0.2
-71	118.02	17.45248	11.52245	0.489975	1.756044	3.583943	0.60785	0.2
-71	118.02	17.43512	11.24542	0.48679	1.702682	3.497776	0.593236	0.2
-71	118.02	17.40039	10.85608	0.491198	1.658618	3.376677	0.572697	0.2
-72	118.02	17.40039	10.42182	0.500742	1.623207	3.241604	0.549788	0.2
-72	118.02	17.38302	10.18223	0.502938	1.592845	3.167081	0.537149	0.2
-72	118.02	17.36566	9.867765	0.508921	1.562016	3.069269	0.52056	0.2
-72	118.02	17.3483	9.560787	0.515883	1.534126	2.973788	0.504365	0.2
-73	118.02	17.33093	9.560787	0.505047	1.501901	2.973787	0.504365	0.2
-73	118.02	17.33093	9.575762	0.494764	1.473627	2.978445	0.505155	0.2

-73	118.02	17.31357	9.703046	0.478213	1.443264	3.018035	0.51187	0.2
-74	118.02	17.2962	9.695559	0.465706	1.404432	3.015707	0.511475	0.2
-74	118.02	17.27884	9.605711	0.45808	1.368633	2.98776	0.506735	0.2
-74	118.02	17.27884	9.485915	0.452771	1.3359	2.9505	0.500416	0.2
-74	118.02	17.27884	9.306221	0.448486	1.298191	2.894608	0.490936	0.2
-74	118.02	17.26147	9.231348	0.433666	1.245192	2.871319	0.486986	0.2
-75	118.02	17.24411	8.849498	0.437003	1.202871	2.752549	0.466842	0.2
-75	118.02	17.24411	8.57247	0.436663	1.16431	2.666381	0.452228	0.2
-75	118.02	17.22675	8.198107	0.438449	1.118019	2.54994	0.432479	0.2
-76	118.02	17.22675	7.876155	0.43506	1.06581	2.449799	0.415495	0.2
-76	118.02	17.20938	7.756359	0.418363	1.009317	2.412538	0.409175	0.2
-76	118.02	17.19202	7.651537	0.402143	0.957074	2.379934	0.403646	0.2
-77	118.02	17.17465	7.456869	0.39175	0.908618	2.319384	0.393376	0.2
-77	118.02	17.15729	7.209789	0.385526	0.864555	2.242533	0.380342	0.2
-77	118.02	17.15729	7.082506	0.374541	0.825093	2.202942	0.373627	0.3
-78	118.02	17.15729	6.902812	0.368332	0.790828	2.147051	0.364148	0.3
-78	118.02	17.15729	6.820452	0.360092	0.763911	2.121434	0.359803	0.3
-78	118.02	17.13993	6.693168	0.356524	0.742227	2.081844	0.353088	0.3
-78	118.02	17.13993	6.610808	0.354114	0.728137	2.056226	0.348744	0.3
-79	118.02	17.12256	6.610808	0.350189	0.720068	2.056226	0.348744	0.3
-79	118.02	17.1052	6.58086	0.34596	0.708149	2.046911	0.347164	0.3
-79	118.02	17.08783	6.520961	0.339123	0.687836	2.028279	0.344004	0.3
-79	118.02	17.0531	6.505987	0.325766	0.659228	2.023621	0.343214	0.3
-80	118.02	17.01838	6.535936	0.306294	0.622677	2.032937	0.344794	0.3
-80	118.02	16.98365	6.528449	0.288046	0.584909	2.030609	0.344399	0.3
-80	118.02	16.94892	6.423627	0.276676	0.5528	1.998005	0.338869	0.3
-81	118.02	16.89683	6.206497	0.272082	0.525247	1.930469	0.327415	0.4
-81	118.02	16.8621	5.884545	0.276867	0.506758	1.830329	0.310431	0.3
-81	118.02	16.82737	5.510182	0.289364	0.495938	1.713886	0.290682	0.3
-81	118.02	16.81001	5.053459	0.311459	0.489559	1.571828	0.266588	0.3
-82	118.02	16.79264	4.986074	0.311679	0.483373	1.550869	0.263033	0.3
-82	118.02	16.75791	5.090896	0.297369	0.470875	1.583472	0.268563	0.3
-82	118.02	16.74055	5.195717	0.280731	0.453683	1.616076	0.274093	0.3
-82	118.02	16.72318	5.442797	0.253459	0.429088	1.692928	0.287127	0.4
-83	118.02	16.68846	5.48772	0.23502	0.401156	1.7069	0.289497	0.4
-83	118.02	16.65373	5.35295	0.224509	0.373803	1.664981	0.282387	0.4
-83	118.02	16.619	5.218179	0.216851	0.351963	1.623062	0.275277	0.4
-84	118.02	16.60163	4.956125	0.218279	0.336489	1.541553	0.261453	0.4
-84	118.02	16.58427	4.731507	0.221115	0.325412	1.471688	0.249604	0.4
-84	118.02	16.54954	4.679096	0.219303	0.319171	1.455386	0.246839	0.4
-84	118.02	16.53218	4.679096	0.214089	0.311583	1.455386	0.246839	0.4
-85	118.02	16.49745	4.828842	0.200699	0.301442	1.501963	0.254739	0.5
-85	118.02	16.46272	4.791405	0.195007	0.290622	1.490319	0.252764	0.5
-85	118.02	16.42799	4.851303	0.184287	0.278079	1.508949	0.255923	0.5
-85	118.02	16.39326	4.768943	0.179605	0.266414	1.483332	0.251579	0.5
-86	118.02	16.3759	4.738995	0.173606	0.255898	1.474017	0.249999	0.6
-86	118.02	16.34117	4.634173	0.171613	0.247366	1.441413	0.244469	0.6
-86	118.02	16.32381	4.499402	0.170618	0.238778	1.399494	0.237359	0.6
-87	118.02	16.30644	4.469453	0.1674	0.232716	1.390179	0.23578	0.6
-87	118.02	16.28908	4.357144	0.167427	0.226905	1.355246	0.229855	0.6
-87	118.02	16.27172	4.364632	0.163362	0.221776	1.357575	0.23025	0.6
-87	118.02	16.25435	4.252323	0.162445	0.214856	1.322642	0.224325	0.6
-88	118.02	16.23699	4.237348	0.158892	0.209417	1.317984	0.223535	0.6
-88	118.02	16.21962	4.140014	0.158558	0.204177	1.28771	0.2184	0.6
-88	118.02	16.21962	4.102578	0.15573	0.198721	1.276066	0.216426	0.6
-88	118.02	16.20226	4.027705	0.154331	0.193343	1.252777	0.212476	0.6
-89	118.02	16.20226	3.96032	0.152534	0.187894	1.231818	0.208921	0.6
-89	118.02	16.20226	3.967807	0.148793	0.183632	1.234147	0.209316	0.6
-89	118.02	16.18489	3.87796	0.148092	0.178629	1.206201	0.204576	0.6
-90	118.02	16.18489	3.810575	0.1465	0.173638	1.185241	0.201021	0.7
-90	118.02	16.16753	3.803087	0.141965	0.167932	1.182913	0.200626	0.7
-90	118.02	16.16753	3.735702	0.139879	0.162533	1.161953	0.197072	0.7
-90	118.02	16.16753	3.653342	0.13733	0.156053	1.136336	0.192727	0.7
-91	118.02	16.16753	3.548521	0.136419	0.15057	1.103732	0.187197	0.7
-91	118.02	16.15017	3.548521	0.130762	0.144326	1.103732	0.187197	0.7
-91	118.02	16.15017	3.503597	0.12701	0.13841	1.089759	0.184827	0.8
-92	118.02	16.15017	3.436212	0.124881	0.133472	1.068799	0.181272	0.8
-92	118.02	16.15017	3.376314	0.121271	0.127355	1.050168	0.178113	0.8
-92	118.02	16.15017	3.271492	0.117988	0.12006	1.017565	0.172583	0.8
-92	118.02	16.15017	3.234056	0.113585	0.114257	1.00592	0.170608	0.8
-92	118.02	16.1328	3.226569	0.109466	0.109859	1.003592	0.170213	0.9

-93	118.02	16.1328	3.136722	0.107831	0.105205	0.975646	0.165473	0.9
-93	118.02	16.11544	3.084311	0.104964	0.100696	0.959344	0.162708	0.9
-93	118.02	16.11544	3.024413	0.103638	0.097494	0.940714	0.159549	0.9
-94	118.02	16.11544	2.957027	0.101772	0.093605	0.919754	0.155994	0.9
-94	118.02	16.09807	2.904617	0.100012	0.090356	0.903453	0.153229	1.0
-94	118.02	16.09807	2.904617	0.116971	0.105677	0.903452	0.153229	0.8
-94	118.02	16.08071	3.091798	0.106832	0.102738	0.961673	0.163103	0.9
-95	118.02	16.08071	3.293954	0.095767	0.098119	1.024552	0.173768	1.0
-95	118.02	16.08071	3.316416	0.091048	0.093919	1.031538	0.174953	1.1
-95	118.02	16.04598	3.308928	0.08799	0.09056	1.029209	0.174558	1.1
-95	118.02	16.02862	3.301441	0.085736	0.08804	1.02688	0.174163	1.1
-94	118.02	16.01125	3.33139	0.083749	0.086781	1.036196	0.175743	1.1
-94	118.02	15.99389	3.368826	0.081616	0.085521	1.04784	0.177718	1.2
-94	118.02	15.97652	3.398776	0.079705	0.084261	1.057155	0.179298	1.2
-94	118.02	15.95916	3.391288	0.069261	0.073058	1.054826	0.178902	1.4
-94	118.02	15.9418	3.391288	0.073068	0.077074	1.054826	0.178902	1.3
-94	118.02	15.92443	3.376314	0.074734	0.078483	1.050169	0.178113	1.3
-94	118.02	15.92443	3.398776	0.074521	0.07878	1.057155	0.179298	1.3
-94	118.02	15.90707	3.361339	0.075338	0.078767	1.045511	0.177323	1.3
-94	118.02	15.90707	3.353852	0.0752	0.078447	1.043182	0.176928	1.3
-95	118.02	15.8897	3.308928	0.075899	0.078116	1.029209	0.174558	1.3
-95	118.02	15.8897	3.286467	0.075856	0.077542	1.022223	0.173373	1.3
-95	118.02	15.87234	3.241543	0.075243	0.075863	1.00825	0.171003	1.3
-95	118.02	15.87234	3.19662	0.074409	0.073983	0.994277	0.168633	1.3
-95	118.02	15.85497	3.159183	0.073049	0.071781	0.982632	0.166658	1.3
-4	146.85	26.37768	17.05553	0.317979	1.686863	5.304952	13.48742	0.4
-4	146.85	26.37768	17.72938	0.236872	1.306244	5.514548	14.0203	0.5
-5	146.85	26.37768	18.50057	0.172964	0.995306	5.754419	14.63015	0.8
-5	146.85	26.37768	19.22684	0.129853	0.776564	5.980314	15.20448	1.0
-5	146.85	26.37768	18.75514	0.107552	0.627413	5.833596	14.83146	1.2
-6	146.85	26.37768	18.70273	0.090191	0.524666	5.817295	14.79002	1.4
-6	146.85	26.37768	18.7177	0.077812	0.453018	5.821957	14.80185	1.7
-7	146.85	26.37768	17.99893	0.072213	0.404277	5.598386	14.23345	1.8
-7	146.85	26.37768	17.34753	0.069167	0.373208	5.395777	13.71833	1.9
-7	146.85	26.39504	17.00312	0.066842	0.353504	5.288651	13.44597	1.9
-8	146.85	26.39504	16.9582	0.063828	0.336673	5.274678	13.41045	2.0
-8	146.85	26.39504	16.96568	0.061342	0.323701	5.277007	13.41637	2.1
-9	146.85	26.39504	16.30681	0.061371	0.311278	5.072069	12.89534	2.1
-9	146.85	26.39504	15.61798	0.061691	0.299683	4.857816	12.35061	2.1
-9	146.85	26.39504	15.19869	0.061247	0.289541	4.727401	12.01904	2.1
-9	146.85	26.39504	14.6072	0.061971	0.281559	4.543423	11.55129	2.1
-10	146.85	26.39504	14.01571	0.063387	0.276331	4.359445	11.08355	2.0
-10	146.85	26.39504	12.96749	0.068392	0.275854	4.033408	10.25462	1.9
-10	146.85	26.39504	12.05404	0.074691	0.280038	3.74929	9.532268	1.7
-11	146.85	26.39504	11.89681	0.077191	0.285636	3.700384	9.407932	1.7
-11	146.85	26.39504	12.33107	0.075643	0.290127	3.835457	9.751342	1.7
-11	146.85	26.39504	12.63056	0.074576	0.292981	3.928611	9.988177	1.7
-11	146.85	26.39504	12.68297	0.07435	0.293305	3.944912	10.02962	1.7
-12	146.85	26.39504	13.19211	0.070278	0.288369	4.103273	10.43225	1.8
-12	146.85	26.39504	14.14299	0.062737	0.275983	4.399035	11.1842	2.1
-12	146.85	26.39504	14.69705	0.057658	0.263575	4.571369	11.62235	2.3
-12	146.85	26.39504	14.6671	0.055391	0.252695	4.562053	11.59866	2.3
-13	146.85	26.39504	13.8435	0.056914	0.245066	4.305881	10.94736	2.3
-13	146.85	26.39504	12.98246	0.060008	0.242315	4.038066	10.26646	2.2
-13	146.85	26.39504	12.12892	0.064874	0.244742	3.772578	9.591483	2.0
-13	146.85	26.39504	11.51496	0.071239	0.255151	3.581614	9.105967	1.8
-14	146.85	26.39504	10.91598	0.079377	0.269509	3.395307	8.632297	1.6
-14	146.85	26.39504	10.71383	0.084894	0.282902	3.332429	8.472438	1.5
-14	146.85	26.39504	10.89352	0.085033	0.288119	3.388321	8.614536	1.5
-14	146.85	26.39504	11.23045	0.08072	0.281964	3.493118	8.880978	1.6
-15	146.85	26.39504	11.11065	0.077998	0.26955	3.455856	8.786241	1.7
-15	146.85	26.39504	11.14809	0.074137	0.25707	3.4675	8.815848	1.8
-15	146.85	26.39504	11.23793	0.087177	0.304724	3.495447	8.886893	1.5
-16	146.85	26.39504	11.44009	0.083749	0.298005	3.558326	9.04676	1.6
-16	146.85	26.39504	11.74707	0.079721	0.291286	3.653807	9.289518	1.6
-16	146.85	26.39504	11.9642	0.076469	0.284568	3.721344	9.461223	1.7
-16	146.85	26.39504	11.89681	0.075767	0.280368	3.700384	9.407932	1.7
-17	146.85	26.39504	11.51496	0.064518	0.231078	3.581614	9.105967	2.0
-17	146.85	26.41241	11.4326	0.066665	0.237061	3.555997	9.040837	1.9
-17	146.85	26.39504	11.98666	0.062877	0.234427	3.72833	9.478985	2.1
-18	146.85	26.39504	12.35353	0.058076	0.223153	3.842443	9.769103	2.2

-18	146.85	26.36031	12.35353	0.054992	0.211303	3.842443	9.769103	2.4
-18	146.85	26.29086	12.24871	0.052641	0.200555	3.80984	9.686212	2.5
-18	146.85	26.2214	12.08399	0.050838	0.191081	3.758605	9.555953	2.6
-19	146.85	26.16931	11.70214	0.050167	0.1826	3.639834	9.253988	2.6
-19	146.85	26.09985	11.1406	0.050853	0.176213	3.465172	8.809925	2.6
-19	146.85	26.04776	10.63895	0.051859	0.171609	3.30914	8.413223	2.5
-20	146.85	25.99567	9.965099	0.05585	0.17311	3.099544	7.880345	2.3
-20	146.85	25.96094	8.946833	0.065268	0.181628	2.782823	7.075106	2.0
-20	146.85	25.92621	8.617393	0.070899	0.190035	2.680354	6.814587	1.8
-20	146.85	25.89148	9.029192	0.069145	0.194189	2.80844	7.140235	1.9
-21	146.85	25.85675	9.455966	0.065589	0.19291	2.941184	7.477726	2.0
-21	146.85	25.82202	9.995049	0.060498	0.188079	3.10886	7.90403	2.1
-21	146.85	25.7873	10.317	0.05648	0.181244	3.209	8.158627	2.3
-21	146.85	25.76993	10.44428	0.053945	0.175244	3.24859	8.259279	2.4
-22	146.85	25.75257	10.49669	0.051892	0.169423	3.264892	8.300725	2.5
-22	146.85	25.71784	10.80367	0.048719	0.163713	3.360374	8.543483	2.7
-22	146.85	25.70048	11.27537	0.044927	0.157562	3.50709	8.9165	2.9
-23	146.85	25.66575	11.05075	0.045097	0.155008	3.437226	8.738872	2.9
-23	146.85	25.63102	10.57905	0.047027	0.154744	3.29051	8.365854	2.8
-23	146.85	25.61365	10.11484	0.04954	0.155859	3.146121	7.99876	2.6
-23	146.85	25.57893	9.710533	0.052446	0.158405	3.020364	7.679036	2.5
-24	146.85	25.56156	8.729702	0.061032	0.165719	2.715287	6.9034	2.1
-24	146.85	25.5442	7.995951	0.070468	0.175258	2.487061	6.323154	1.8
-24	146.85	25.52683	8.003438	0.073352	0.182601	2.489389	6.329075	1.8
-24	146.85	25.50947	8.370314	0.070432	0.18337	2.603502	6.619198	1.8
-25	146.85	25.50947	8.677291	0.066067	0.178314	2.698985	6.861954	2.0
-25	146.85	25.4921	8.587444	0.063825	0.170479	2.671039	6.790903	2.0
-25	146.85	25.47474	8.317903	0.063068	0.163169	2.587201	6.577752	2.1
-25	146.85	25.47474	7.951027	0.063562	0.157194	2.473087	6.287628	2.0
-26	146.85	25.45738	7.898617	0.062262	0.152964	2.456786	6.246183	2.1
-26	146.85	25.45738	8.040874	0.059655	0.149198	2.501034	6.358679	2.2
-26	146.85	25.44001	8.220569	0.057269	0.146433	2.556926	6.500781	2.3
-27	146.85	25.44001	8.347852	0.055923	0.145204	2.596516	6.601435	2.3
-27	146.85	25.42265	8.287954	0.055996	0.144352	2.577885	6.554068	2.3
-27	146.85	25.42265	8.10826	0.05676	0.143149	2.521994	6.411967	2.3
-27	146.85	25.40528	7.958515	0.057655	0.142721	2.475416	6.29355	2.3
-28	146.85	25.40528	7.906104	0.057761	0.142041	2.459115	6.252103	2.2
-28	146.85	25.38792	7.958515	0.057198	0.141589	2.475417	6.29355	2.3
-28	146.85	25.38792	7.876155	0.057342	0.140478	2.449799	6.22842	2.3
-28	146.85	25.37056	7.614101	0.059165	0.140119	2.36829	6.021189	2.2
-29	146.85	25.35319	7.381996	0.06099	0.140038	2.296096	5.837642	2.1
-29	146.85	25.35319	7.239738	0.062146	0.139943	2.251848	5.725145	2.1
-29	146.85	25.33583	7.239738	0.06174	0.139029	2.251848	5.725145	2.1
-29	146.85	25.31846	7.307123	0.060665	0.137881	2.272808	5.778433	2.1
-30	146.85	25.3011	7.374509	0.058949	0.135216	2.293768	5.831721	2.2
-30	146.85	25.26637	7.322098	0.058418	0.133046	2.277465	5.790275	2.2
-30	146.85	25.23164	7.224763	0.058438	0.13132	2.24719	5.713303	2.2
-30	146.85	25.19691	7.067531	0.059059	0.129828	2.198285	5.588965	2.2
-31	146.85	25.17955	6.910299	0.06002	0.129006	2.14938	5.464626	2.2
-31	146.85	25.16218	6.835426	0.060073	0.12772	2.126091	5.405417	2.2
-31	146.85	25.12746	6.805477	0.059479	0.125903	2.116776	5.381734	2.2
-32	146.85	25.12746	6.693168	0.060067	0.12505	2.081843	5.29292	2.2
-32	146.85	25.11009	6.63327	0.060264	0.124338	2.063212	5.245553	2.2
-32	146.85	25.09273	6.63327	0.060132	0.124064	2.063213	5.245553	2.2
-32	146.85	25.07536	6.648245	0.060474	0.125052	2.06787	5.257395	2.1
-33	146.85	25.07536	6.603321	0.062078	0.127503	2.053897	5.22187	2.1
-33	146.85	25.058	6.4985	0.063803	0.128964	2.021294	5.138978	2.0
-33	146.85	25.04064	6.393678	0.064813	0.128892	1.98869	5.056085	2.0
-33	146.85	25.02327	6.363729	0.065057	0.128773	1.979374	5.032402	2.0
-34	146.85	25.02327	6.326293	0.064824	0.127555	1.96773	5.002798	2.0
-34	146.85	25.00591	6.318806	0.064366	0.126504	1.965401	4.996877	2.0
-34	146.85	25.00591	6.243933	0.064723	0.125699	1.942113	4.937668	2.0
-35	146.85	24.97118	6.25142	0.06425	0.12493	1.944441	4.943588	2.0
-35	146.85	24.95381	6.236446	0.063616	0.123401	1.939785	4.931747	2.0
-35	146.85	24.93645	6.176548	0.063156	0.121332	1.921153	4.88438	2.1
-35	146.85	24.91909	6.109162	0.062468	0.118701	1.900194	4.831092	2.1
-36	146.85	24.90172	6.026803	0.062136	0.116479	1.874577	4.765963	2.1
-36	146.85	24.86699	5.921981	0.062048	0.11429	1.841973	4.68307	2.1
-36	146.85	24.83226	5.817159	0.06213	0.112417	1.809369	4.600177	2.1
-37	146.85	24.8149	5.779723	0.061153	0.109936	1.797725	4.570573	2.1
-37	146.85	24.79754	5.629978	0.061937	0.108461	1.751149	4.452156	2.1

-37	146.85	24.78017	5.510182	0.062135	0.106493	1.713887	4.357422	2.1
-37	146.85	24.74544	5.427822	0.061743	0.10424	1.68827	4.292292	2.1
-38	146.85	24.72808	5.308026	0.061722	0.101903	1.651008	4.197558	2.1
-38	146.85	24.69335	5.225666	0.06145	0.099881	1.625392	4.132428	2.1
-38	146.85	24.65862	5.203204	0.060247	0.097503	1.618404	4.114665	2.2
-39	146.85	24.64126	5.143306	0.059991	0.095972	1.599774	4.067298	2.2
-39	146.85	24.62389	5.090896	0.059567	0.094323	1.583473	4.025852	2.2
-39	146.85	24.60653	5.02351	0.059891	0.093581	1.562513	3.972564	2.2
-39	146.85	24.58917	5.030997	0.058948	0.092244	1.564842	3.978485	2.2
-40	146.85	24.55444	4.978587	0.058979	0.091331	1.54854	3.937039	2.2
-40	146.85	24.53707	4.971099	0.058758	0.090852	1.546211	3.931118	2.2
-40	146.85	24.51971	4.978587	0.058794	0.091045	1.54854	3.937039	2.2
-40	146.85	24.50235	4.918689	0.059475	0.090991	1.529909	3.889672	2.2
-41	146.85	24.48498	4.88874	0.059888	0.091065	1.520594	3.865989	2.2
-41	146.85	24.46762	4.828842	0.060796	0.091314	1.501963	3.818622	2.1
-41	146.85	24.45025	4.746482	0.062284	0.091952	1.476346	3.753492	2.1
-42	146.85	24.43289	4.783918	0.061894	0.092098	1.48799	3.783096	2.1
-42	146.85	24.41552	4.694071	0.063158	0.092213	1.460044	3.712045	2.1
-42	146.85	24.39816	4.551813	0.065451	0.092666	1.415796	3.599549	2.0
-42	146.85	24.3808	4.364632	0.068792	0.093391	1.357575	3.451527	1.9
-43	146.85	24.34607	4.319708	0.070021	0.09408	1.343602	3.416001	1.9
-43	146.85	24.3287	4.312221	0.070226	0.094193	1.341273	3.410081	1.8
-43	146.85	24.29397	4.252323	0.071302	0.094308	1.322642	3.362714	1.8
-44	146.85	24.25925	4.162476	0.072556	0.093938	1.294696	3.291663	1.8
-44	146.85	24.24188	4.17745	0.07233	0.093982	1.299354	3.303504	1.8
-44	146.85	24.20715	4.132526	0.072329	0.09297	1.285381	3.267979	1.8
-44	146.85	24.18979	4.140014	0.07075	0.091105	1.28771	3.2739	1.8
-45	146.85	24.17243	4.12504	0.069075	0.088627	1.283052	3.262059	1.9
-45	146.85	24.15506	4.050167	0.068519	0.086318	1.259764	3.20285	1.9
-45	146.85	24.1377	4.050167	0.067243	0.08471	1.259764	3.20285	1.9
-45	146.85	24.12033	3.982781	0.066962	0.082952	1.238805	3.149561	1.9
-46	146.85	24.12033	3.967807	0.066394	0.081939	1.234147	3.13772	2.0
-46	146.85	24.0856	3.922884	0.066073	0.080621	1.220174	3.102195	2.0
-46	146.85	24.0856	3.900422	0.065457	0.079412	1.213187	3.084432	2.0
-47	146.85	24.06824	3.848011	0.065276	0.078128	1.196885	3.042986	2.0
-47	146.85	24.03351	3.803087	0.065597	0.077596	1.182913	3.00746	2.0
-47	146.85	24.01615	3.728215	0.067036	0.077737	1.159624	2.948252	1.9
-47	146.85	23.99878	3.66083	0.067959	0.077383	1.138665	2.894964	1.9
-48	146.85	23.98142	3.623393	0.068008	0.076646	1.12702	2.865359	1.9
-48	146.85	23.96405	3.563495	0.06841	0.075825	1.10839	2.817992	1.9
-48	146.85	23.94669	3.585957	0.067548	0.075342	1.115376	2.835755	1.9
-49	146.85	23.92933	3.518572	0.068112	0.074543	1.094416	2.782467	1.9
-49	146.85	23.91196	3.466161	0.068722	0.074091	1.078114	2.741021	1.9
-49	146.85	23.8946	3.421237	0.068841	0.073257	1.064142	2.705495	1.9
-49	146.85	23.87723	3.368826	0.069966	0.073313	1.04784	2.664049	1.9
-50	146.85	23.85987	3.33139	0.070454	0.073005	1.036196	2.634445	1.8
-50	146.85	23.84251	3.286467	0.071324	0.072909	1.022222	2.59892	1.8
-50	146.85	23.82514	3.271492	0.071864	0.073126	1.017565	2.587078	1.8
-51	146.85	23.80778	3.256518	0.07269	0.073629	1.012907	2.575236	1.8
-51	146.85	23.79041	3.219081	0.073823	0.073916	1.001263	2.545631	1.8
-51	146.85	23.77305	3.219081	0.074187	0.07428	1.001263	2.545631	1.8
-51	146.85	23.75568	3.136722	0.076487	0.074624	0.975646	2.480502	1.7
-52	146.85	23.73832	3.11426	0.076992	0.074579	0.968659	2.46274	1.7
-52	146.85	23.72096	3.061849	0.078447	0.074709	0.952358	2.421293	1.7
-52	146.85	23.70359	2.972002	0.08092	0.074803	0.924411	2.350243	1.6
-53	146.85	23.66886	2.927078	0.082302	0.074931	0.910439	2.314717	1.6
-53	146.85	23.6515	2.822257	0.085398	0.074966	0.877835	2.231825	1.5
-53	146.85	23.63413	2.822257	0.085048	0.074658	0.877835	2.231825	1.5
-53	146.85	23.61677	2.81477	0.084458	0.073943	0.875506	2.225905	1.5
-54	146.85	23.59941	2.724922	0.087702	0.074332	0.84756	2.154853	1.5
-54	146.85	23.58204	2.747384	0.087244	0.074554	0.854546	2.172616	1.5
-54	146.85	23.58204	2.73241	0.087689	0.074526	0.849889	2.160775	1.5
-55	146.85	23.56468	2.709948	0.087342	0.073621	0.842902	2.143012	1.5
-55	146.85	23.52995	2.612614	0.088993	0.072318	0.812627	2.066041	1.5
-55	146.85	23.52995	2.597639	0.08858	0.07157	0.80797	2.054199	1.5
-56	146.85	23.51259	2.545228	0.090004	0.071253	0.791668	2.012752	1.4
-56	146.85	23.49522	2.545228	0.089722	0.07103	0.791668	2.012752	1.4
-56	146.85	23.46049	2.477843	0.09221	0.071067	0.770708	1.959465	1.4
-56	146.85	23.44313	2.425432	0.092818	0.070022	0.754407	1.918018	1.4
-57	146.85	23.4084	2.395483	0.093076	0.06935	0.745091	1.894335	1.4
-57	146.85	23.39104	2.380509	0.092103	0.068196	0.740434	1.882493	1.4

-57	146.85	23.35631	2.328098	0.093113	0.067426	0.724131	1.841047	1.4
-58	146.85	23.33894	2.313123	0.092695	0.066691	0.719474	1.829205	1.4
-58	146.85	23.30422	2.290662	0.092734	0.066072	0.712487	1.811443	1.4
-58	146.85	23.28685	2.238251	0.092499	0.064396	0.696185	1.769997	1.4
-58	146.85	23.26949	2.193327	0.092137	0.062857	0.682213	1.734471	1.4
-59	146.85	23.25212	2.18584	0.090628	0.061616	0.679884	1.72855	1.4
-59	146.85	23.21739	2.140916	0.091455	0.060901	0.665911	1.693025	1.4
-60	146.85	23.1653	2.066044	0.093683	0.060203	0.642622	1.633816	1.4
-60	146.85	23.13057	2.088506	0.092565	0.060131	0.649609	1.651579	1.4
-60	146.85	23.09584	2.043582	0.094284	0.05993	0.635636	1.616053	1.4
-60	146.85	23.06112	1.991171	0.096621	0.059841	0.619334	1.574607	1.3
-61	146.85	23.04375	1.946248	0.097975	0.05931	0.605361	1.539082	1.3
-61	146.85	23.00902	1.916299	0.098548	0.058739	0.596046	1.515399	1.3
-61	146.85	22.99166	1.961222	0.095559	0.058293	0.610019	1.550924	1.4
-61	146.85	22.95693	1.916299	0.096582	0.057568	0.596046	1.515399	1.3
-62	146.85	22.9222	1.88635	0.096929	0.056871	0.58673	1.491715	1.3
-62	146.85	22.88747	1.833939	0.099133	0.056548	0.570428	1.450269	1.3
-62	146.85	22.85275	1.811477	0.101424	0.057146	0.563442	1.432506	1.3
-62	146.85	22.81802	1.841426	0.098604	0.056476	0.572757	1.45619	1.3
-63	146.85	22.78329	1.841426	0.099375	0.056918	0.572757	1.45619	1.3
-63	146.85	22.76592	1.796503	0.10303	0.057571	0.558784	1.420665	1.3
-63	146.85	22.7312	1.789015	0.10282	0.057215	0.556456	1.414743	1.3
-64	146.85	22.71383	1.766554	0.102763	0.056465	0.549469	1.396981	1.3
-64	146.85	22.69647	1.72163	0.103651	0.055504	0.535496	1.361456	1.3
-64	146.85	22.6791	1.691681	0.104767	0.055126	0.52618	1.337772	1.2
-64	146.85	22.66174	1.63927	0.107506	0.054815	0.509879	1.296326	1.2
-65	146.85	22.64438	1.609321	0.108872	0.054497	0.500563	1.272642	1.2
-65	146.85	22.60965	1.571885	0.11235	0.05493	0.488919	1.243038	1.2
-65	146.85	22.59228	1.55691	0.114062	0.055236	0.484261	1.231196	1.1
-65	146.85	22.57492	1.549423	0.114339	0.055104	0.481933	1.225275	1.1
-66	146.85	22.55755	1.586859	0.11163	0.055098	0.493577	1.254879	1.2
-66	146.85	22.54019	1.571885	0.11262	0.055062	0.488919	1.243038	1.2
-66	146.85	22.52283	1.55691	0.112613	0.054534	0.484262	1.231196	1.2
-67	146.85	22.50546	1.534449	0.114847	0.054814	0.477275	1.213434	1.1
-67	146.85	22.4881	1.497012	0.118387	0.055124	0.46563	1.183829	1.1
-67	146.85	22.47073	1.459576	0.122243	0.055496	0.453987	1.154225	1.1
-67	146.85	22.436	1.459576	0.123137	0.055903	0.453986	1.154225	1.1
-68	146.85	22.41864	1.452089	0.124187	0.05609	0.451658	1.148304	1.0
-68	146.85	22.38391	1.429627	0.127009	0.056477	0.444671	1.130541	1.0
-68	146.85	22.36655	1.399678	0.129905	0.056555	0.435356	1.106858	1.0
-68	146.85	22.33182	1.369729	0.130535	0.055613	0.42604	1.083174	1.0
-69	146.85	22.29709	1.347267	0.131133	0.054952	0.419054	1.065411	1.0
-69	146.85	22.26236	1.347267	0.131047	0.054916	0.419054	1.065411	1.0
-69	146.85	22.22763	1.33978	0.133478	0.055624	0.416725	1.059491	1.0
-69	146.85	22.19291	1.324805	0.137071	0.056482	0.412067	1.047648	0.9
-70	146.85	22.17554	1.317318	0.140121	0.057413	0.409739	1.041728	0.9
-70	146.85	22.14081	1.309831	0.142925	0.058229	0.40741	1.035807	0.9
-70	146.85	22.12345	1.272395	0.149177	0.059039	0.395766	1.006203	0.9
-70	146.85	22.08872	1.227471	0.155777	0.059475	0.381793	0.970677	0.8
-71	146.85	22.07136	1.182548	0.164972	0.06068	0.36782	0.935152	0.8
-71	146.85	22.03663	1.160086	0.170365	0.061473	0.360833	0.91739	0.8
-71	146.85	22.0019	1.167573	0.169439	0.061534	0.363162	0.92331	0.8
-71	146.85	21.94981	1.167573	0.169091	0.061407	0.363162	0.92331	0.8
-72	146.85	21.89771	1.160086	0.169771	0.061259	0.360833	0.91739	0.8
-72	146.85	21.84562	1.130137	0.171467	0.060274	0.351518	0.893706	0.8
-72	146.85	21.79353	1.107675	0.173243	0.059687	0.344531	0.875943	0.7
-72	146.85	21.74144	1.100188	0.17568	0.060118	0.342202	0.870023	0.7
-73	146.85	21.70671	1.077726	0.180744	0.060588	0.335216	0.85226	0.7
-73	146.85	21.65462	1.062752	0.186165	0.061538	0.330558	0.840418	0.7
-73	146.85	21.61989	1.047777	0.193309	0.063	0.325901	0.828576	0.7
-74	146.85	21.58516	1.047777	0.199193	0.064917	0.325901	0.828576	0.7
-74	146.85	21.53307	1.032802	0.207764	0.066743	0.321243	0.816734	0.6
-74	146.85	21.49834	1.025315	0.214346	0.068358	0.318914	0.810813	0.6
-74	146.85	21.46361	1.017828	0.22091	0.069937	0.316585	0.804893	0.6
-74	146.85	21.42888	1.002853	0.22752	0.07097	0.311928	0.793051	0.6
-75	146.85	21.37679	0.972904	0.239175	0.072377	0.302612	0.769367	0.5
-75	146.85	21.3247	0.920494	0.254609	0.072897	0.28631	0.727921	0.5
-75	146.85	21.28997	0.905519	0.260121	0.073264	0.281653	0.71608	0.5
-76	146.85	21.23787	0.898032	0.2649	0.073993	0.279324	0.710159	0.5
-76	146.85	21.18578	0.890545	0.264872	0.073368	0.276995	0.704238	0.5
-76	146.85	21.15105	0.868083	0.268601	0.072525	0.270009	0.686475	0.5

-76	146.85	21.09896	0.860596	0.269514	0.072143	0.26768	0.680554	0.5
-77	146.85	21.06423	0.853108	0.268668	0.071291	0.265351	0.674633	0.5
-77	146.85	21.0295	0.838134	0.27161	0.070807	0.260693	0.662792	0.5
-77	146.85	20.99478	0.808185	0.279046	0.070146	0.251378	0.639108	0.5
-77	146.85	20.96005	0.79321	0.287063	0.070824	0.24672	0.627266	0.5
-78	146.85	20.92532	0.79321	0.291685	0.071965	0.24672	0.627266	0.4
-78	146.85	20.90796	0.79321	0.298866	0.073736	0.24672	0.627266	0.4
-78	146.85	20.87323	0.785723	0.311544	0.076139	0.244391	0.621345	0.4
-78	146.85	20.85586	0.79321	0.307358	0.075831	0.24672	0.627266	0.4
-79	146.85	20.82113	0.785723	0.315726	0.077161	0.244391	0.621345	0.4
-79	146.85	20.78641	0.778236	0.322901	0.078162	0.242062	0.615424	0.4
-79	146.85	20.75168	0.763261	0.329256	0.078167	0.237405	0.603583	0.4
-79	146.85	20.71695	0.748287	0.335436	0.078072	0.232747	0.591741	0.4
-80	146.85	20.69958	0.718338	0.346676	0.077458	0.223432	0.568057	0.4
-80	146.85	20.66486	0.695876	0.352046	0.076199	0.216445	0.550295	0.4
-80	146.85	20.63013	0.673414	0.434357	0.09098	0.209459	0.532532	0.3
-80	146.85	20.5954	0.643465	0.450377	0.09014	0.200143	0.508849	0.3
-81	146.85	20.57804	0.635978	0.451433	0.0893	0.197815	0.502928	0.3
-81	146.85	20.54331	0.927981	0.297744	0.085941	0.288639	0.733842	0.4
-81	146.85	20.49121	0.770749	0.339216	0.081321	0.239734	0.609504	0.4

7.2.3 Março

Prof (m)	Dist. (Km)	Temp C	Chl-a (mg / m3)	PAR (uE/(m2.sec)	Efic (mgC/mg Clor-a/h)	Prod (mgC/m3/h	% LUZ	ClorS:ClorF
-2	0	27.28062	1.186641	170.9785	53.18116	63.10695	8.751904	0.7
-3	0	27.28062	1.209244	182.3592	56.72102	68.58955	9.334449	0.7
-3	0	27.28062	1.217617	208.3549	64.80672	78.90977	10.6651	0.7
-3	0	27.28062	1.253078	239.1425	74.38287	93.20754	12.24103	0.7
-3	0	27.28062	1.163895	277.9565	86.45556	100.6252	14.2278	0.7
-4	0	27.28062	1.130556	274.8418	85.48679	96.6476	14.06837	0.7
-4	0	27.28062	0.89744	266.5758	82.91575	74.41187	13.64526	0.9
-4	0	27.29798	0.897839	254.4764	79.15237	71.06612	13.02592	0.9
-5	0	27.29798	0.877573	243.8146	75.83608	66.55167	12.48018	1.0
-5	0	27.29798	0.868392	226.5639	70.47043	61.19595	11.59716	1.0
-5	0	27.29798	0.835299	214.4645	66.70705	55.72031	10.97783	1.0
-6	0	27.29798	0.786793	204.8808	63.72614	50.1393	10.48727	1.1
-6	0	27.28062	0.740447	192.9012	60.00001	44.42684	9.874064	1.1
-6	0	27.29798	0.700534	180.5622	56.16208	39.34342	9.242466	1.2
-6	0	27.28062	0.650538	170.2598	52.9576	34.45092	8.715115	1.3
-7	0	27.24589	0.609035	160.1969	49.82764	30.34678	8.200024	1.4
-7	0	27.21116	0.55129	156.7228	48.74706	26.87378	8.022195	1.5
-7	0	27.17643	0.493938	155.1655	48.26267	23.83874	7.942481	1.7
-7	0	27.1417	0.460976	150.733	46.884	21.61239	7.715594	1.8
-8	0	27.10698	0.441221	144.9828	45.09545	19.89706	7.421258	1.9
-8	0	27.07225	0.439126	136.5971	42.48715	18.65719	6.992017	1.9
-8	0	27.02015	0.439817	129.4093	40.25147	17.70327	6.624094	1.9
-8	0	26.98543	0.453854	119.8256	37.27056	16.91538	6.133532	1.8
-9	0	26.9507	0.456022	111.3201	34.62501	15.78975	5.69816	1.8
-9	0	26.91597	0.446587	106.0491	32.9855	14.73088	5.428352	1.9
-9	0	26.88124	0.430217	102.4552	31.86765	13.70999	5.244391	1.9
-10	0	26.84651	0.412742	99.93946	31.08518	12.83016	5.115617	2.0
-10	0	26.82915	0.387642	100.6582	31.30874	12.13659	5.152407	2.2
-10	0	26.81178	0.367057	102.3354	31.8304	11.68357	5.238258	2.3
-10	0	26.77706	0.358836	101.976	31.71861	11.38179	5.219862	2.3
-10	0	26.77706	0.355477	100.4186	31.23422	11.10305	5.140143	2.3
-10	0	26.75969	0.359905	96.34557	29.96733	10.78539	4.931656	2.3
-11	0	26.74233	0.357633	93.71006	29.14758	10.42414	4.796752	2.3
-11	0	26.74233	0.363137	88.67863	27.5826	10.01627	4.539207	2.3
-11	0	26.72496	0.375004	81.61066	25.38418	9.519168	4.177418	2.2
-11	0	26.72496	0.386639	74.42289	23.1485	8.950107	3.809496	2.2
-11	0	26.7076	0.387282	69.27166	21.54626	8.344482	3.545819	2.2
-12	0	26.7076	0.387245	64.36002	20.01854	7.75208	3.294407	2.2
-12	0	26.7076	0.384535	60.40675	18.78891	7.224993	3.09205	2.2
-12	0	26.69023	0.375738	57.89103	18.00643	6.765695	2.963277	2.2
-12	0	26.69023	0.363621	56.21388	17.48477	6.35783	2.877429	2.3
-13	0	26.69023	0.354539	54.53674	16.96311	6.014088	2.791581	2.4
-13	0	26.69023	0.345257	53.21898	16.55324	5.715122	2.724128	2.4
-13	0	26.69023	0.333662	52.5002	16.32966	5.448591	2.687336	2.5

-14	0	26.67287	0.33389	50.70326	15.77074	5.265696	2.595356	2.5
-14	0	26.67287	0.342552	48.30734	15.02552	5.147021	2.472715	2.4
-14	0	26.67287	0.360313	45.31244	14.09398	5.078238	2.319415	2.3
-14	0	26.67287	0.38346	42.07794	13.08793	5.0187	2.15385	2.2
-15	0	26.65551	0.410727	38.72365	12.04461	4.947039	1.982154	2.0
-15	0	26.65551	0.436916	35.60895	11.0758	4.839191	1.822721	1.9
-15	0	26.65551	0.45125	33.09324	10.29332	4.64486	1.693949	1.9
-16	0	26.65551	0.464191	30.57752	9.510828	4.414837	1.565176	1.8
-16	0	26.65551	0.457089	29.02017	9.026434	4.125886	1.48546	1.8
-16	0	26.65551	0.446438	27.34302	8.504773	3.796855	1.399612	1.9
-17	0	26.63814	0.467656	23.14267	7.198296	3.366324	1.184608	1.8
-17	0	26.60341	0.502846	18.88242	5.873188	2.953308	0.966537	1.7
-17	0	26.58605	0.541285	15.59552	4.85083	2.625681	0.79829	1.5
-18	0	26.56869	0.543892	13.8435	4.305882	2.341934	0.708609	1.5
-18	0	26.55132	0.519753	12.63805	3.930939	2.043118	0.646906	1.6
-18	0	26.51659	0.519105	11.31281	3.518735	1.826594	0.579071	1.6
-18	0	26.51659	0.50886	10.33197	3.213658	1.635301	0.528864	1.6
-19	0	26.49923	0.525166	8.827037	2.745562	1.441875	0.451831	1.6
-19	0	26.48186	0.546509	7.352047	2.28678	1.249745	0.37633	1.5
-19	0	26.4645	0.589864	5.794698	1.802383	1.06316	0.296614	1.4
-19	0	26.4645	0.61171	4.72402	1.469359	0.898822	0.241809	1.4
-20	0	26.44714	0.653298	3.71324	1.154967	0.754537	0.19007	1.3
-20	0	26.44714	0.651037	3.084311	0.959344	0.624568	0.157877	1.3
-20	0	26.42977	0.655459	2.492817	0.775366	0.50822	0.1276	1.3
-20	0	26.42977	0.608742	2.178353	0.677555	0.412456	0.111504	1.4
-20	0	26.41241	0.619265	1.736605	0.540153	0.334498	0.088892	1.3
-20	0	26.41241	0.584756	1.467063	0.456315	0.266833	0.075095	1.4
-4	3.23	27.41953	0.332838	80.05331	24.89978	8.287596	5.48418	1.2
-5	3.23	27.36744	0.356016	79.57412	24.75074	8.811668	5.451352	1.2
-5	3.23	27.29798	0.41043	79.81371	24.82526	10.18904	5.467765	1.0
-5	3.23	27.26325	0.410674	84.60556	26.31571	10.80718	5.796039	1.0
-6	3.23	27.21116	0.362051	91.31414	28.40235	10.2831	6.255621	1.1
-6	3.23	27.15907	0.314105	96.10599	29.89281	9.389494	6.583894	1.3
-6	3.23	27.12434	0.281098	98.8613	30.74982	8.643698	6.772651	1.5
-6	3.23	27.08961	0.257166	101.2572	31.49505	8.099469	6.936786	1.6
-7	3.23	27.05488	0.241509	102.4552	31.86767	7.696335	7.018857	1.7
-7	3.23	27.03752	0.229283	103.7729	32.27754	7.400704	7.109128	1.8
-7	3.23	26.98543	0.216134	106.2887	33.06004	7.145388	7.281477	1.9
-7	3.23	26.98543	0.206173	108.8044	33.84252	6.977413	7.453819	2.0
-8	3.23	26.96806	0.202304	109.2836	33.99156	6.876632	7.486647	2.0
-8	3.23	26.93333	0.199608	110.0023	34.21513	6.8296	7.535883	2.1
-8	3.23	26.91597	0.197821	110.1221	34.25238	6.775847	7.54409	2.1
-9	3.23	26.91597	0.163622	110.4815	34.36417	5.622731	7.568711	2.5
-9	3.23	26.89861	0.164413	109.2836	33.99156	5.588667	7.486647	2.5
-9	3.23	26.88124	0.166267	106.7678	33.20908	5.521578	7.314298	2.5
-10	3.23	26.88124	0.166026	105.6897	32.87373	5.457897	7.240441	2.5
-10	3.23	26.86388	0.164072	105.2105	32.72467	5.36919	7.207613	2.5
-10	3.23	26.86388	0.164128	103.7729	32.27752	5.297651	7.109128	2.5
-10	3.23	26.84651	0.16356	103.174	32.09124	5.248843	7.068099	2.5
-11	3.23	26.84651	0.16352	102.2156	31.79313	5.198796	7.002443	2.5
-11	3.23	26.84651	0.165872	100.4186	31.23422	5.18089	6.879336	2.5
-11	3.23	26.82915	0.170064	98.26231	30.56352	5.197751	6.731616	2.4
-12	3.23	26.82915	0.164499	100.5384	31.2715	5.144139	6.887543	2.5
-12	3.23	26.82915	0.162645	101.1374	31.45778	5.116435	6.928579	2.5
-12	3.23	26.81178	0.164799	100.2989	31.19696	5.141241	6.871136	2.5
-13	3.23	26.82915	0.168731	99.10089	30.82434	5.201025	6.789064	2.4
-13	3.23	26.81178	0.171035	98.98109	30.78708	5.265678	6.780857	2.4
-13	3.23	26.81178	0.175081	98.14252	30.52624	5.344574	6.72341	2.3
-13	3.23	26.81178	0.181587	96.22578	29.93006	5.43491	6.5921	2.3
-14	3.23	26.81178	0.187309	94.78823	29.48293	5.522424	6.493619	2.2
-14	3.23	26.81178	0.192462	93.23088	28.99853	5.581112	6.38693	2.1
-14	3.23	26.81178	0.197645	91.55373	28.47687	5.628303	6.272034	2.1
-15	3.23	26.81178	0.200434	90.35577	28.10426	5.633038	6.189966	2.0
-15	3.23	26.81178	0.201685	89.03802	27.69438	5.585527	6.099691	2.0
-15	3.23	26.81178	0.201432	88.19944	27.43356	5.526001	6.042243	2.0
-16	3.23	26.81178	0.203614	86.4025	26.87464	5.47204	5.919141	2.0
-16	3.23	26.81178	0.206326	84.24617	26.20392	5.406553	5.771418	2.0
-16	3.23	26.81178	0.208331	82.20964	25.57049	5.327126	5.631902	2.0
-17	3.23	26.81178	0.215256	78.85535	24.52717	5.279619	5.402111	1.9
-17	3.23	26.79442	0.222464	75.98024	23.6329	5.257457	5.205147	1.8
-17	3.23	26.79442	0.227695	74.54269	23.18576	5.279286	5.106666	1.8

-18	3.23	26.81178	0.234101	73.46452	22.85041	5.349296	5.032804	1.8
-18	3.23	26.79442	0.244875	72.02697	22.40327	5.48599	4.934322	1.7
-18	3.23	26.79442	0.255886	71.30819	22.1797	5.675473	4.885081	1.6
-18	3.23	26.79442	0.274143	69.63104	21.65805	5.937395	4.770185	1.5
-19	3.23	26.79442	0.296067	68.0737	21.17364	6.268821	4.663497	1.4
-19	3.23	26.79442	0.322312	66.39655	20.65199	6.65639	4.548601	1.3
-19	3.23	26.79442	0.345226	65.55798	20.39116	7.039557	4.491154	1.2
-20	3.23	26.79442	0.374256	63.28185	19.68319	7.366546	4.335224	1.1
-20	3.23	26.74233	0.40065	60.76614	18.9007	7.572563	4.162881	1.0
-20	3.23	26.67287	0.42531	57.53164	17.89464	7.61076	3.941297	1.0
-20	3.23	26.60341	0.460748	52.38041	16.2924	7.506683	3.588403	0.9
-21	3.23	26.53396	0.493219	47.46877	14.76469	7.28222	3.251924	0.8
-21	3.23	26.48186	0.523539	42.43733	13.1997	6.910561	2.907237	0.8
-21	3.23	26.42977	0.566491	37.1663	11.5602	6.548753	2.546137	0.7
-22	3.23	26.37768	0.61247	33.21303	10.33058	6.327171	2.275312	0.7
-22	3.23	26.34295	0.630587	30.81711	9.585352	6.044397	2.111175	0.7
-22	3.23	26.30822	0.627732	28.90037	8.989169	5.642793	1.979866	0.7
-22	3.23	26.29086	0.605811	27.22322	8.46751	5.129706	1.86497	0.7
-23	3.23	26.27349	0.581109	25.30649	7.87133	4.574098	1.733661	0.7
-23	3.23	26.23877	0.55607	22.948	7.137746	3.969083	1.572089	0.7
-23	3.23	26.2214	0.53114	20.61946	6.413478	3.406452	1.412569	0.8
-24	3.23	26.20404	0.507243	19.19689	5.971	3.028747	1.315114	0.8
-24	3.23	26.18667	0.49497	17.53472	5.453998	2.699567	1.201244	0.8
-24	3.23	26.16931	0.471319	16.59132	5.160564	2.432271	1.136615	0.9
-24	3.23	26.16931	0.459916	15.32598	4.766992	2.192417	1.049931	0.9
-24	3.23	26.15194	0.431021	14.5473	4.524792	1.950282	0.996586	1.0
-25	3.23	26.15194	0.426579	13.1397	4.086971	1.743414	0.900156	1.0
-25	3.23	26.13458	0.417003	11.91179	3.705042	1.545013	0.816036	1.0
-25	3.23	26.13458	0.390644	11.1406	3.465171	1.353649	0.763205	1.1
-25	3.23	26.11722	0.356844	10.66141	3.316127	1.183341	0.730377	1.2
-25	3.23	26.11722	0.321415	10.33197	3.213658	1.032918	0.707808	1.3
-25	3.23	26.11722	0.302949	9.523352	2.962143	0.897377	0.652412	1.4
-25	3.23	26.09985	0.275688	8.804575	2.738576	0.754992	0.603171	1.5
-26	3.23	26.09985	0.232977	8.048362	2.503362	0.583227	0.551366	1.8
-26	3.23	26.09985	0.168729	8.085798	2.515007	0.424354	0.55393	2.4
-2	6.68	27.3848	0.196009	110.7211	34.43869	6.750294	5.669336	0.7
-3	6.68	27.35007	0.172473	115.6328	35.96642	6.203239	5.920834	0.8
-3	6.68	27.35007	0.15951	117.7891	36.63712	5.843984	6.031244	0.9
-3	6.68	27.35007	0.150831	117.5495	36.56258	5.514752	6.018976	0.9
-3	6.68	27.31535	0.179431	116.1119	36.11547	6.480216	5.945365	0.8
-3	6.68	27.31535	0.178848	114.1952	35.51928	6.35256	5.847223	0.8
-4	6.68	27.28062	0.178629	112.1587	34.88583	6.231617	5.742947	0.8
-4	6.68	27.28062	0.177064	111.3201	34.62501	6.130836	5.700007	0.8
-4	6.68	27.24589	0.14669	111.0805	34.55048	5.068224	5.687739	0.9
-4	6.68	27.22853	0.146406	110.8409	34.47596	5.047471	5.67547	0.9
-5	6.68	27.1938	0.144407	111.2003	34.58774	4.994715	5.693873	1.0
-5	6.68	27.15907	0.141195	112.0389	34.84859	4.920454	5.736812	1.0
-5	6.68	27.1417	0.137878	113.117	35.18393	4.851101	5.792015	1.0
-5	6.68	27.10698	0.136245	112.6378	35.03486	4.773328	5.767478	1.0
-6	6.68	27.08961	0.163148	111.6795	34.73677	5.667231	5.71841	0.8
-6	6.68	27.05488	0.163279	110.0023	34.21514	5.586607	5.632531	0.8
-6	6.68	27.05488	0.161844	109.6429	34.10334	5.519418	5.614128	0.9
-7	6.68	27.02015	0.162058	108.5648	33.76801	5.472386	5.558926	0.9
-7	6.68	27.00279	0.160026	109.4034	34.0288	5.445507	5.601865	0.9
-7	6.68	26.98543	0.158393	110.1221	34.2524	5.425354	5.638665	0.9
-7	6.68	26.96806	0.157391	110.9607	34.51323	5.432072	5.681605	0.9
-8	6.68	26.9507	0.155431	112.6378	35.03486	5.445507	5.767478	0.9
-8	6.68	26.9507	0.155181	113.2368	35.22117	5.465664	5.798149	0.9
-8	6.68	26.93333	0.154609	114.0754	35.48202	5.485821	5.841089	0.9
-8	6.68	26.93333	0.128026	114.6744	35.66833	4.566473	5.87176	1.1
-9	6.68	26.91597	0.129194	114.7942	35.7056	4.612939	5.877894	1.1
-9	6.68	26.91597	0.130706	114.6744	35.6683	4.662053	5.87176	1.1
-9	6.68	26.89861	0.132308	114.315	35.55652	4.70442	5.853357	1.0
-10	6.68	26.89861	0.134318	113.4764	35.29569	4.74085	5.810418	1.0
-10	6.68	26.89861	0.135164	113.3566	35.25845	4.765656	5.804284	1.0
-10	6.68	26.88124	0.137146	112.2785	34.92311	4.789575	5.749081	1.0
-11	6.68	26.88124	0.139229	110.9607	34.5132	4.805235	5.681605	1.0
-11	6.68	26.86388	0.141673	109.044	33.91704	4.805132	5.583462	1.0
-11	6.68	26.86388	0.14374	107.3668	33.39539	4.80025	5.497583	1.0
-11	6.68	26.86388	0.144765	106.4084	33.09728	4.791321	5.44851	1.0
-12	6.68	26.84651	0.146417	105.0907	32.68741	4.786003	5.381039	0.9

-12	6.68	26.84651	0.147596	104.1323	32.38931	4.780516	5.331965	0.9
-12	6.68	26.84651	0.148661	103.4135	32.16577	4.781786	5.29516	0.9
-13	6.68	26.84651	0.149366	103.174	32.09123	4.793329	5.282896	0.9
-13	6.68	26.84651	0.150415	102.9344	32.0167	4.815789	5.270628	0.9
-13	6.68	26.82915	0.151611	102.9344	32.01671	4.854099	5.270628	0.9
-13	6.68	26.82915	0.153717	102.3354	31.83038	4.892871	5.239957	0.9
-14	6.68	26.82915	0.15599	101.8562	31.68135	4.941968	5.21542	0.9
-14	6.68	26.82915	0.158801	101.1374	31.45779	4.995531	5.178615	0.9
-14	6.68	26.81178	0.162201	100.1791	31.1597	5.054119	5.129546	0.9
-15	6.68	26.81178	0.165624	99.22068	30.8616	5.111415	5.080471	0.8
-15	6.68	26.81178	0.169969	97.90292	30.45174	5.17584	5.012997	0.8
-15	6.68	26.81178	0.174818	96.34557	29.96732	5.238834	4.933255	0.8
-16	6.68	26.81178	0.180811	94.42884	29.37115	5.310632	4.835111	0.8
-16	6.68	26.81178	0.186148	92.87149	28.88676	5.377221	4.755369	0.7
-16	6.68	26.79442	0.192487	91.07455	28.32782	5.452734	4.663359	0.7
-17	6.68	26.79442	0.199162	89.03802	27.69438	5.515668	4.559081	0.7
-17	6.68	26.79442	0.203862	87.72026	27.28451	5.562281	4.491607	0.7
-17	6.68	26.79442	0.210323	85.20454	26.50202	5.573992	4.362792	0.7
-18	6.68	26.77706	0.215339	82.92841	25.79405	5.554462	4.246246	0.6
-18	6.68	26.75969	0.219182	80.89188	25.16061	5.514744	4.141968	0.6
-18	6.68	26.75969	0.225276	78.13657	24.3036	5.475012	4.000886	0.6
-18	6.68	26.74233	0.227494	76.57922	23.81921	5.418732	3.921144	0.6
-19	6.68	26.72496	0.228927	75.02187	23.3348	5.341965	3.841402	0.6
-19	6.68	26.72496	0.232813	72.62595	22.58957	5.259155	3.718721	0.6
-19	6.68	26.7076	0.239171	69.99043	21.76981	5.206697	3.583773	0.6
-20	6.68	26.67287	0.244366	67.83411	21.09912	5.155907	3.473361	0.6
-20	6.68	26.67287	0.250988	65.31839	20.31663	5.099237	3.344547	0.5
-20	6.68	26.65551	0.244779	66.39655	20.65199	5.055165	3.399753	0.6
-20	6.68	26.63814	0.241276	66.99553	20.8383	5.027789	3.430423	0.6
-21	6.68	26.62078	0.241007	66.99553	20.8383	5.022181	3.430423	0.6
-21	6.68	26.60341	0.243975	66.27676	20.61472	5.029465	3.393619	0.6
-21	6.68	26.58605	0.251716	64.71941	20.13032	5.067127	3.313877	0.5
-22	6.68	26.55132	0.258975	63.64124	19.79496	5.126393	3.258671	0.5
-22	6.68	26.53396	0.268749	62.20369	19.34783	5.199712	3.185063	0.5
-22	6.68	26.51659	0.282776	60.28695	18.75164	5.302515	3.086918	0.5
-22	6.68	26.48186	0.287955	59.92756	18.63986	5.367436	3.068516	0.5
-23	6.68	26.4645	0.297799	58.37021	18.15546	5.406679	2.988774	0.5
-23	6.68	26.44714	0.304736	56.93266	17.70834	5.396363	2.915166	0.5
-23	6.68	26.42977	0.312159	55.01592	17.11215	5.341706	2.817022	0.4
-23	6.68	26.39504	0.313226	53.81796	16.73953	5.243262	2.755682	0.4
-24	6.68	26.37768	0.31164	52.85959	16.44145	5.123805	2.70661	0.4
-24	6.68	26.36031	0.30743	52.26061	16.25514	4.997311	2.67594	0.4
-24	6.68	26.32559	0.306119	51.18245	15.91979	4.873344	2.620734	0.5
-24	6.68	26.29086	0.302497	50.34387	15.65895	4.736785	2.577795	0.5
-24	6.68	26.29086	0.297865	49.74489	15.47266	4.608757	2.547125	0.5
-25	6.68	26.27349	0.293398	49.02612	15.24908	4.474043	2.510321	0.5
-25	6.68	26.23877	0.285087	49.14591	15.28634	4.35793	2.516455	0.5
-25	6.68	26.23877	0.279454	48.90632	15.21182	4.25101	2.504187	0.5
-25	6.68	26.2214	0.27636	48.54693	15.10004	4.173052	2.485785	0.5
-25	6.68	26.20404	0.273659	48.30734	15.02552	4.111872	2.473517	0.5
-25	6.68	26.20404	0.271531	48.18754	14.98825	4.069775	2.467383	0.5
-25	6.68	26.16931	0.269713	48.18754	14.98825	4.042531	2.467383	0.5
-25	6.68	26.16931	0.271388	47.94795	14.91373	4.0474	2.455115	0.5
-25	6.68	26.16931	0.275252	47.70836	14.83921	4.084522	2.442847	0.5
-25	6.68	26.16931	0.279745	47.22918	14.69016	4.109495	2.418311	0.5
-25	6.68	26.15194	0.287357	46.5104	14.46659	4.157069	2.381507	0.5
-25	6.68	26.15194	0.292476	46.03121	14.31755	4.187536	2.356971	0.5
-25	6.68	26.15194	0.293283	45.79162	14.24303	4.177232	2.344703	0.5
-25	6.68	26.15194	0.287113	45.43223	14.13124	4.05726	2.326301	0.5
-25	6.68	26.15194	0.278653	45.19264	14.05672	3.916943	2.314033	0.5
-25	6.68	26.15194	0.271308	44.95305	13.9822	3.793487	2.301765	0.5
-25	6.68	26.13458	0.264657	44.95305	13.98219	3.700486	2.301765	0.5
-25	6.68	26.13458	0.260239	44.95305	13.9822	3.638716	2.301765	0.5
-25	6.68	26.13458	0.254627	45.19264	14.05672	3.579227	2.314033	0.5
-25	6.68	26.13458	0.24923	45.91142	14.28029	3.559074	2.350837	0.6
-25	6.68	26.13458	0.247056	46.15101	14.35481	3.546437	2.363105	0.6
-25	6.68	26.11722	0.243871	46.6302	14.50386	3.537071	2.387641	0.6
-25	6.68	26.13458	0.23896	46.98958	14.61564	3.49256	2.406043	0.6
-25	6.68	26.13458	0.236713	46.86979	14.57838	3.45089	2.399909	0.6
-25	6.68	26.11722	0.235919	46.86979	14.57838	3.439316	2.399909	0.6
-25	6.68	26.11722	0.239681	46.27081	14.39207	3.449504	2.369239	0.6

-25	6.68	26.11722	0.241625	46.15101	14.35481	3.468476	2.363105	0.6
-25	6.68	26.13458	0.246583	45.43223	14.13124	3.484524	2.326301	0.6
-26	6.68	26.11722	0.248551	45.31244	14.09398	3.503079	2.320167	0.6
-26	6.68	26.11722	0.250066	45.43223	14.13124	3.533737	2.326301	0.6
-26	6.68	26.11722	0.251568	45.79162	14.24302	3.583086	2.344703	0.5
-26	6.68	26.11722	0.253076	46.03121	14.31755	3.623429	2.356971	0.5
-25	6.68	26.11722	0.252681	46.74999	14.54112	3.674269	2.393775	0.5
-25	6.68	26.11722	0.25642	47.22918	14.69016	3.766851	2.418311	0.5
-25	6.68	26.11722	0.262563	47.58856	14.80195	3.886442	2.436713	0.5
-25	6.68	26.11722	0.268988	47.94795	14.91373	4.011609	2.455115	0.5
-25	6.68	26.11722	0.272696	48.30734	15.02551	4.097404	2.473517	0.5
-25	6.68	26.11722	0.276394	48.54693	15.10004	4.173562	2.485785	0.5
-25	6.68	26.11722	0.281956	48.42714	15.06278	4.247046	2.479651	0.5
-25	6.68	26.11722	0.286049	48.42714	15.06278	4.308695	2.479651	0.5
-25	6.68	26.11722	0.291282	48.18754	14.98826	4.365805	2.467383	0.5
-25	6.68	26.11722	0.298415	47.70836	14.8392	4.428238	2.442847	0.5
-25	6.68	26.09985	0.307411	47.22918	14.69017	4.515916	2.418311	0.4
-25	6.68	26.09985	0.312381	46.86979	14.57838	4.554014	2.399909	0.4
-25	6.68	26.11722	0.313098	46.5104	14.46659	4.529464	2.381507	0.4
-25	6.68	26.09985	0.315465	45.79162	14.24302	4.493172	2.344703	0.4
-25	6.68	26.09985	0.312361	45.55203	14.1685	4.425689	2.332435	0.4
-25	6.68	26.09985	0.303941	45.07285	14.01946	4.261085	2.307899	0.5
-25	6.68	26.09985	0.292565	44.95305	13.9822	4.090707	2.301765	0.5
-26	6.68	26.09985	0.287654	45.07285	14.01946	4.032748	2.307899	0.5
-25	6.68	26.09985	0.283129	45.67183	14.20577	4.022063	2.338569	0.5
-25	6.68	26.09985	0.278713	46.6302	14.50386	4.042415	2.387641	0.5
-25	6.68	26.11722	0.277151	47.46877	14.76469	4.092052	2.430579	0.5
-25	6.68	26.09985	0.278415	47.94795	14.91373	4.152199	2.455115	0.5
-25	6.68	26.09985	0.281992	48.06775	14.95099	4.216053	2.461249	0.5
-25	6.68	26.09985	0.286767	47.58856	14.80195	4.244704	2.436713	0.5
-25	6.68	26.09985	0.292229	46.6302	14.50386	4.238444	2.387641	0.5
-26	6.68	26.09985	0.293778	45.91142	14.28029	4.195229	2.350837	0.5
-26	6.68	26.09985	0.29783	44.47387	13.83315	4.119928	2.277229	0.5
-26	6.68	26.09985	0.301546	42.79672	13.31149	4.014032	2.191353	0.5
-26	6.68	26.09985	0.302134	41.59876	12.93888	3.90928	2.130013	0.5
-26	6.68	26.09985	0.299542	40.76019	12.67805	3.797607	2.087075	0.5
-26	6.68	26.09985	0.298352	39.80182	12.37996	3.693581	2.038003	0.5
-27	6.68	26.09985	0.294696	39.32263	12.23091	3.604398	2.013466	0.5
-27	6.68	26.09985	0.293765	38.60386	12.00734	3.527338	1.976663	0.5
-27	6.68	26.09985	0.290613	38.24447	11.89556	3.457004	1.958261	0.5
-27	6.68	26.09985	0.290778	37.52569	11.67199	3.393956	1.921456	0.5
-27	6.68	26.09985	0.294406	36.08814	11.22486	3.30467	1.847848	0.5
-27	6.68	26.09985	0.296747	34.65059	10.77772	3.198258	1.77424	0.5
-27	6.68	26.09985	0.29701	33.33283	10.36784	3.07935	1.706766	0.5
-28	6.68	26.09985	0.300656	31.53588	9.808921	2.949111	1.614755	0.5
-28	6.68	26.09985	0.298282	30.45772	9.473569	2.825793	1.55955	0.5
-28	6.68	26.09985	0.296043	29.37955	9.138217	2.705307	1.504343	0.5
-28	6.68	26.09985	0.296299	28.18159	8.765603	2.597236	1.443003	0.5
-28	6.68	26.09985	0.291044	27.58261	8.579295	2.496956	1.412333	0.5
-28	6.68	26.09985	0.286797	27.22322	8.467511	2.428454	1.393931	0.5
-28	6.68	26.09985	0.283459	26.74404	8.318468	2.357945	1.369395	0.5
-28	6.68	26.09985	0.280058	26.38465	8.206684	2.298348	1.350993	0.5
-28	6.68	26.09985	0.27954	25.78567	8.020374	2.242017	1.320323	0.5
-28	6.68	26.09985	0.272486	25.66588	7.983112	2.175287	1.314189	0.5
-29	6.68	26.09985	0.268978	25.42628	7.908591	2.127236	1.301921	0.5
-29	6.68	26.09985	0.267664	24.9471	7.759547	2.076948	1.277385	0.5
-29	6.68	26.09985	0.270786	23.82401	7.410221	2.006583	1.219879	0.5
-29	6.68	26.09985	0.272762	22.74585	7.07487	1.929754	1.164673	0.5
-29	6.68	26.09985	0.275958	21.42809	6.664994	1.83926	1.097199	0.5
-29	6.68	26.09985	0.274216	20.05043	6.236487	1.710146	1.026657	0.5
-30	6.68	26.09985	0.269491	18.93483	5.88949	1.587162	0.969534	0.5
-30	6.68	26.09985	0.259498	18.21606	5.665922	1.470294	0.932731	0.5
-30	6.68	26.09985	0.251125	17.48979	5.440026	1.366125	0.895543	0.5
-30	6.68	26.09985	0.240771	16.92076	5.263033	1.267185	0.866406	0.6
-30	6.68	26.09985	0.231548	16.25439	5.055768	1.170653	0.832286	0.6
-30	6.68	26.09985	0.224271	15.49818	4.820556	1.081109	0.793565	0.6
-30	6.68	26.09985	0.216548	14.89171	4.631919	1.003031	0.762511	0.6
-31	6.68	26.09985	0.208579	14.40504	4.480543	0.934549	0.737592	0.7
-3	9.52	27.15907	0.166192	95.02782	29.55747	4.912203	8.515807	0.8
-3	9.52	27.17643	0.163777	90.47557	28.14153	4.608943	8.107863	0.8
-3	9.52	27.17643	0.155946	89.3974	27.80618	4.336265	8.011244	0.8

-4	9.52	27.17643	0.14922	88.19944	27.43356	4.093646	7.90389	0.9
-4	9.52	27.1938	0.143731	86.88168	27.02368	3.884136	7.7858	0.9
-4	9.52	27.21116	0.138154	87.00148	27.06094	3.738574	7.796536	0.9
-5	9.52	27.21116	0.134357	86.64209	26.94915	3.620804	7.76433	0.9
-5	9.52	27.21116	0.130731	86.28271	26.83738	3.508472	7.732124	1.0
-5	9.52	27.21116	0.126856	86.4025	26.87464	3.409198	7.742859	1.0
-6	9.52	27.17643	0.123641	86.88168	27.02369	3.341241	7.7858	1.0
-6	9.52	27.1417	0.121394	87.24107	27.13547	3.29407	7.818007	1.0
-6	9.52	27.10698	0.120249	87.48067	27.20998	3.27197	7.839478	1.1
-6	9.52	27.05488	0.119159	88.07964	27.39629	3.264517	7.893154	1.1
-7	9.52	27.03752	0.119367	87.95985	27.35903	3.265763	7.882419	1.1
-7	9.52	27.02015	0.118185	88.91822	27.65713	3.268663	7.968302	1.1
-7	9.52	27.00279	0.118341	88.91822	27.65712	3.272971	7.968302	1.1
-7	9.52	26.98543	0.118704	88.67863	27.58259	3.274172	7.946832	1.1
-7	9.52	26.96806	0.144568	88.07964	27.39629	3.960636	7.893154	0.9
-8	9.52	26.93333	0.145511	87.36087	27.17273	3.953917	7.828742	0.9
-8	9.52	26.91597	0.145615	87.00148	27.06094	3.940479	7.796536	0.9
-8	9.52	26.89861	0.145222	86.64209	26.94916	3.913603	7.76433	0.9
-9	9.52	26.89861	0.120801	85.92332	26.7256	3.22849	7.699918	1.1
-9	9.52	26.88124	0.120836	85.80352	26.68832	3.224905	7.689182	1.0
-9	9.52	26.86388	0.120571	86.04311	26.76285	3.226816	7.710653	1.1
-10	9.52	26.86388	0.119967	86.88168	27.02369	3.241954	7.7858	1.1
-10	9.52	26.84651	0.119902	87.72026	27.28451	3.271462	7.860949	1.1
-10	9.52	26.84651	0.119661	88.91822	27.65711	3.309489	7.968302	1.1
-11	9.52	26.82915	0.120203	89.63699	27.8807	3.351349	8.032714	1.1
-11	9.52	26.82915	0.121979	89.63699	27.88069	3.400864	8.032714	1.0
-11	9.52	26.81178	0.124337	88.79842	27.61985	3.434156	7.957567	1.0
-11	9.52	26.81178	0.126643	87.48067	27.20999	3.445941	7.839478	1.0
-12	9.52	26.81178	0.129716	85.44413	26.57655	3.447409	7.656976	1.0
-12	9.52	26.81178	0.131595	83.76698	26.05488	3.428686	7.50668	1.0
-12	9.52	26.81178	0.133517	81.85025	25.4587	3.399177	7.334915	1.0
-13	9.52	26.81178	0.135013	79.69392	24.78799	3.346706	7.141678	0.9
-13	9.52	26.77706	0.135455	78.01678	24.26633	3.286993	6.991383	0.9
-13	9.52	26.77706	0.134871	76.57922	23.8192	3.212524	6.862557	0.9
-14	9.52	26.77706	0.134489	75.26146	23.40933	3.148304	6.744468	0.9
-14	9.52	26.77706	0.133867	74.42289	23.1485	3.098825	6.66932	0.9
-14	9.52	26.77706	0.134246	73.22493	22.77588	3.057575	6.561967	0.9
-15	9.52	26.75969	0.133931	72.86554	22.6641	3.035434	6.52976	0.9
-15	9.52	26.75969	0.133855	72.86554	22.6641	3.033705	6.52976	0.9
-15	9.52	26.75969	0.133959	73.34473	22.81315	3.056022	6.572702	0.9
-16	9.52	26.74233	0.133973	74.1833	23.07397	3.091294	6.64785	0.9
-16	9.52	26.74233	0.134665	74.78228	23.26027	3.132335	6.701527	0.9
-16	9.52	26.74233	0.136908	74.78228	23.26028	3.184516	6.701527	0.9
-16	9.52	26.72496	0.138673	75.02187	23.33481	3.235899	6.722997	0.9
-17	9.52	26.72496	0.142895	73.70412	22.92493	3.275852	6.604909	0.9
-17	9.52	26.7076	0.148185	71.78738	22.32874	3.308778	6.433142	0.9
-17	9.52	26.69023	0.152552	70.46962	21.91888	3.34376	6.315053	0.8
-18	9.52	26.69023	0.158819	68.19349	21.2109	3.36869	6.11108	0.8
-18	9.52	26.67287	0.165311	66.03716	20.54021	3.395526	5.917843	0.8
-18	9.52	26.65551	0.1709	64.12042	19.94401	3.40844	5.746077	0.7
-19	9.52	26.63814	0.176027	62.32348	19.38509	3.412305	5.585046	0.7
-19	9.52	26.62078	0.179851	61.12552	19.01248	3.419407	5.477692	0.7
-19	9.52	26.60341	0.184824	59.80777	18.60261	3.438199	5.359603	0.7
-20	9.52	26.60341	0.190526	58.37021	18.15547	3.45909	5.230778	0.7
-20	9.52	26.56869	0.193716	57.77123	17.96916	3.480912	5.177101	0.7
-20	9.52	26.56869	0.199784	56.09409	17.44751	3.485724	5.026806	0.6
-21	9.52	26.53396	0.203325	55.13572	17.14941	3.486911	4.940923	0.6
-21	9.52	26.51659	0.210272	53.33878	16.59049	3.488511	4.779893	0.6
-21	9.52	26.48186	0.220754	51.06265	15.88252	3.506131	4.57592	0.6
-22	9.52	26.44714	0.231299	49.14591	15.28635	3.535712	4.404153	0.5
-22	9.52	26.44714	0.244121	47.10938	14.6529	3.577079	4.221652	0.5
-22	9.52	26.41241	0.264956	44.11448	13.72137	3.635551	3.953268	0.5
-22	9.52	26.41241	0.28939	41.11957	12.78983	3.701245	3.684882	0.4
-22	9.52	26.39504	0.316826	38.36426	11.93282	3.780622	3.437968	0.4
-23	9.52	26.37768	0.330305	37.2861	11.59747	3.830706	3.34135	0.4
-23	9.52	26.36031	0.333145	37.2861	11.59747	3.863638	3.34135	0.4
-23	9.52	26.34295	0.326521	37.88508	11.78378	3.847653	3.395027	0.4
-24	9.52	26.34295	0.322091	37.76528	11.74651	3.783449	3.384291	0.4
-24	9.52	26.32559	0.310167	38.24447	11.89556	3.68961	3.427234	0.4
-24	9.52	26.30822	0.293648	39.08304	12.15639	3.569697	3.502381	0.4
-24	9.52	26.30822	0.286009	39.08304	12.15639	3.476831	3.502381	0.4

-25	9.52	26.29086	0.284069	38.72365	12.04461	3.421504	3.470175	0.4
-25	9.52	26.29086	0.294598	37.2861	11.59747	3.416591	3.34135	0.4
-25	9.52	26.27349	0.320623	34.65059	10.77772	3.455582	3.105172	0.4
-25	9.52	26.25613	0.356709	32.01507	9.957967	3.552092	2.868993	0.4
-26	9.52	26.25613	0.391949	30.21813	9.399048	3.683947	2.707962	0.3
-26	9.52	26.23877	0.417751	29.49935	9.175478	3.833068	2.64355	0.3
-26	9.52	26.23877	0.424722	30.33792	9.436308	4.007809	2.718697	0.3
-27	9.52	26.23877	0.422106	31.89527	9.920707	4.18759	2.858257	0.3
-27	9.52	26.2214	0.428515	32.49426	10.10701	4.331007	2.911935	0.3
-27	9.52	26.2214	0.440843	32.13486	9.995231	4.406327	2.879728	0.3
-27	9.52	26.20404	0.451285	31.53588	9.808921	4.426622	2.826051	0.3
-28	9.52	26.20404	0.462414	30.57752	9.510828	4.397937	2.740169	0.3
-28	9.52	26.18667	0.481919	29.13996	9.063693	4.367969	2.611343	0.3
-28	9.52	26.18667	0.51619	27.10343	8.430253	4.351614	2.428842	0.2
-28	9.52	26.18667	0.55406	25.18669	7.834071	4.340542	2.257076	0.2
-29	9.52	26.16931	0.602149	23.21754	7.221583	4.348469	2.080613	0.2
-29	9.52	26.15194	0.660635	21.21096	6.597457	4.358508	1.900795	0.2
-29	9.52	26.15194	0.687928	20.305	6.315668	4.344728	1.819609	0.2
-30	9.52	26.13458	0.688109	20.10284	6.252789	4.302597	1.801493	0.2
-30	9.52	26.11722	0.675099	20.08787	6.248132	4.218109	1.800151	0.2
-30	9.52	26.11722	0.6613	19.8932	6.187582	4.091846	1.782706	0.2
-30	9.52	26.11722	0.654561	19.34663	6.017576	3.938871	1.733726	0.2
-31	9.52	26.09985	0.656097	18.56047	5.773049	3.787681	1.663275	0.2
-31	9.52	26.09985	0.654492	17.8941	5.565783	3.642761	1.603559	0.2
-31	9.52	26.08249	0.647391	17.33256	5.39112	3.490161	1.553237	0.2
-32	9.52	26.08249	0.65083	16.50147	5.132619	3.340461	1.47876	0.2
-32	9.52	26.08249	0.661127	15.49818	4.820555	3.186998	1.388851	0.2
-32	9.52	26.08249	0.667372	14.59971	4.541094	3.030598	1.308336	0.2
-32	9.52	26.08249	0.67236	13.56647	4.219715	2.83717	1.215743	0.2
-33	9.52	26.06512	0.67538	12.80277	3.982173	2.68948	1.147305	0.2
-33	9.52	26.06512	0.671611	12.09148	3.760934	2.525885	1.083564	0.2
-33	9.52	26.06512	0.673421	11.29034	3.511749	2.364884	1.011771	0.2
-34	9.52	26.06512	0.66433	10.66141	3.316126	2.203003	0.95541	0.2
-34	9.52	26.06512	0.656849	10.18972	3.16941	2.081824	0.91314	0.2
-34	9.52	26.06512	0.647514	9.725507	3.025022	1.958745	0.87154	0.2
-34	9.52	26.06512	0.641191	9.238835	2.873647	1.842556	0.827927	0.2
-35	9.52	26.06512	0.64063	8.737189	2.717616	1.740986	0.782973	0.2
-35	9.52	26.04776	0.629405	8.27298	2.573228	1.619603	0.741373	0.2
-35	9.52	26.04776	0.643145	7.584152	2.358975	1.517162	0.679645	0.2
-36	9.52	26.04776	0.655715	6.955222	2.163352	1.418542	0.623284	0.2
-36	9.52	26.04776	0.63045	6.71563	2.08883	1.316903	0.601813	0.2
-3	14.04	27.10698	0.189593	67.71431	21.06185	3.993172	4.740979	0.9
-3	14.04	27.10698	0.178558	69.03207	21.47173	3.833953	4.833241	1.0
-3	14.04	27.10698	0.169386	70.58942	21.95613	3.719061	4.942278	1.0
-4	14.04	27.10698	0.164043	69.99043	21.76983	3.571197	4.90034	1.0
-4	14.04	27.10698	0.156607	70.34982	21.88162	3.426805	4.925503	1.1
-4	14.04	27.10698	0.151244	70.70921	21.9934	3.326359	4.950665	1.1
-5	14.04	27.10698	0.17705	71.18839	22.14244	3.920323	4.984215	1.0
-5	14.04	27.08961	0.175484	70.46962	21.91887	3.846415	4.93389	1.0
-5	14.04	27.07225	0.170629	70.82901	22.03066	3.75907	4.959053	1.0
-5	14.04	27.03752	0.16474	71.78738	22.32875	3.678443	5.026153	1.0
-6	14.04	26.98543	0.15983	72.50615	22.55231	3.604535	5.076477	1.1
-6	14.04	26.96806	0.154721	73.22493	22.77589	3.523908	5.126802	1.1
-6	14.04	26.93333	0.149954	73.82391	22.96219	3.443282	5.168739	1.1
-6	14.04	26.93333	0.144798	74.66248	23.22301	3.362655	5.227451	1.2
-7	14.04	26.89861	0.141967	74.78228	23.26028	3.302186	5.235839	1.2
-7	14.04	26.84651	0.139786	75.02187	23.33481	3.261872	5.252614	1.2
-7	14.04	26.81178	0.136102	76.10004	23.67016	3.221559	5.328101	1.3
-8	14.04	26.77706	0.134471	76.21983	23.70741	3.187964	5.336488	1.3
-8	14.04	26.74233	0.132845	76.33963	23.74469	3.15437	5.344876	1.3
-8	14.04	26.7076	0.131019	76.57922	23.8192	3.120775	5.36165	1.3
-8	14.04	26.69023	0.107918	76.69901	23.85645	2.574548	5.370038	1.6
-9	14.04	26.63814	0.108548	76.69901	23.85646	2.589576	5.370038	1.6
-9	14.04	26.60341	0.109535	76.57922	23.81919	2.609035	5.36165	1.6
-9	14.04	26.56869	0.110299	76.69901	23.85645	2.631353	5.370038	1.5
-10	14.04	26.53396	0.111967	76.21983	23.70742	2.654443	5.336488	1.5
-10	14.04	26.51659	0.113088	76.21983	23.70742	2.68103	5.336488	1.5
-10	14.04	26.48186	0.114552	75.74065	23.55838	2.698669	5.302938	1.5
-10	14.04	26.44714	0.116572	74.78228	23.26029	2.711501	5.235839	1.5
-11	14.04	26.42977	0.119253	73.46452	22.8504	2.724968	5.143577	1.4
-11	14.04	26.39504	0.121722	72.14677	22.44053	2.7315	5.051315	1.4

-11	14.04	26.36031	0.124097	70.94881	22.06791	2.738555	4.967441	1.4
-12	14.04	26.34295	0.126078	69.87064	21.73257	2.740008	4.891953	1.4
-12	14.04	26.32559	0.127392	69.27166	21.54626	2.744815	4.850016	1.3
-12	14.04	26.30822	0.129071	68.79247	21.3972	2.761765	4.816466	1.3
-12	14.04	26.29086	0.131649	67.9539	21.13638	2.782586	4.757754	1.3
-13	14.04	26.25613	0.133531	67.71431	21.06185	2.812412	4.740979	1.3
-13	14.04	26.25613	0.137069	66.75594	20.76376	2.846066	4.673879	1.2
-13	14.04	26.25613	0.140538	65.43818	20.3539	2.860502	4.581617	1.2
-14	14.04	26.23877	0.144187	64.00063	19.90676	2.870296	4.480968	1.2
-14	14.04	26.2214	0.146665	62.68287	19.49687	2.859509	4.388705	1.2
-14	14.04	26.2214	0.150973	61.00573	18.97522	2.864749	4.271281	1.1
-14	14.04	26.20404	0.155574	59.32858	18.45356	2.870897	4.153857	1.1
-15	14.04	26.20404	0.162829	57.05246	17.7456	2.889495	3.994496	1.0
-15	14.04	26.20404	0.174855	53.93776	16.7768	2.933501	3.776422	1.0
-15	14.04	26.16931	0.187059	51.54184	16.03158	2.998849	3.608673	0.9
-15	14.04	26.18667	0.201661	49.02612	15.24908	3.075138	3.432536	0.8
-16	14.04	26.18667	0.217977	46.5104	14.46659	3.153389	3.256399	0.8
-16	14.04	26.18667	0.222176	46.15101	14.35481	3.189301	3.231237	0.8
-16	14.04	26.18667	0.215912	47.10938	14.6529	3.163739	3.298336	0.8
-16	14.04	26.16931	0.210824	47.34897	14.72742	3.104899	3.315111	0.8
-17	14.04	26.16931	0.207994	46.6302	14.50385	3.01671	3.264787	0.8
-17	14.04	26.16931	0.204764	46.27081	14.39207	2.946977	3.239624	0.8
-17	14.04	26.15194	0.203784	45.79162	14.24303	2.902502	3.206074	0.8
-18	14.04	26.16931	0.203453	45.31244	14.09398	2.867468	3.172525	0.8
-18	14.04	26.15194	0.204739	44.59366	13.87041	2.839813	3.1222	0.8
-18	14.04	26.15194	0.208129	43.63529	13.57233	2.824793	3.0551	0.8
-19	14.04	26.15194	0.212696	42.79672	13.31149	2.831305	2.996388	0.8
-19	14.04	26.15194	0.217004	42.07794	13.08792	2.840134	2.946063	0.8
-19	14.04	26.15194	0.223696	40.76019	12.67805	2.836032	2.853801	0.8
-19	14.04	26.15194	0.226914	40.04141	12.45448	2.826099	2.803477	0.8
-20	14.04	26.15194	0.230975	39.20284	12.19365	2.816426	2.744765	0.7
-20	14.04	26.15194	0.232006	38.84345	12.08187	2.803066	2.719602	0.7
-20	14.04	26.15194	0.235111	38.00488	11.82104	2.779253	2.66089	0.7
-20	14.04	26.15194	0.2376	37.52569	11.67199	2.773259	2.62734	0.7
-21	14.04	26.13458	0.2315	37.88508	11.78378	2.727938	2.652502	0.7
-21	14.04	26.13458	0.231127	37.0465	11.52295	2.663268	2.59379	0.7
-21	14.04	26.13458	0.229801	35.96834	11.1876	2.570918	2.518303	0.7
-22	14.04	26.13458	0.229612	35.12977	10.92676	2.508911	2.459591	0.7
-22	14.04	26.13458	0.225255	35.00997	10.8895	2.452919	2.451203	0.8
-22	14.04	26.13458	0.22325	34.53079	10.74046	2.397804	2.417654	0.8
-22	14.04	26.13458	0.223709	33.81201	10.51689	2.35272	2.367329	0.8
-23	14.04	26.13458	0.226641	32.61405	10.14427	2.299104	2.283454	0.8
-23	14.04	26.13458	0.230277	31.41609	9.771659	2.250186	2.19958	0.7
-23	14.04	26.13458	0.237972	29.85874	9.287261	2.21011	2.090543	0.7
-24	14.04	26.11722	0.244684	28.42119	8.840124	2.16304	1.989893	0.7
-24	14.04	26.13458	0.249655	27.46282	8.542034	2.132563	1.922794	0.7
-24	14.04	26.11722	0.253505	26.74404	8.318467	2.108771	1.872469	0.7
-24	14.04	26.11722	0.266384	25.30649	7.871331	2.096798	1.771819	0.6
-25	14.04	26.11722	0.289835	23.26995	7.237887	2.097791	1.629232	0.6
-25	14.04	26.11722	0.306278	21.97466	6.835	2.093409	1.538543	0.6
-25	14.04	26.11722	0.312144	21.23342	6.604443	2.061535	1.486646	0.5
-25	14.04	26.11722	0.309847	20.85157	6.485672	2.009565	1.459911	0.6
-26	14.04	26.11722	0.311208	19.99054	6.217857	1.935049	1.399626	0.5
-26	14.04	26.11722	0.308032	19.39904	6.033878	1.858629	1.358213	0.6
-26	14.04	26.11722	0.30821	18.59042	5.782365	1.782183	1.301598	0.6
-27	14.04	26.11722	0.302468	18.10375	5.63099	1.703192	1.267524	0.6
-27	14.04	26.11722	0.293034	17.87913	5.561124	1.629597	1.251797	0.6
-27	14.04	26.11722	0.291787	17.32507	5.388792	1.572382	1.213005	0.6
-28	14.04	26.11722	0.289506	17.05553	5.304953	1.535816	1.194133	0.6
-28	14.04	26.11722	0.289666	16.63625	5.174538	1.498889	1.164778	0.6
-28	14.04	26.09985	0.274837	17.07051	5.309611	1.45928	1.195182	0.6
-28	14.04	26.11722	0.249422	17.96898	5.58907	1.394036	1.258088	0.7
-29	14.04	26.11722	0.240088	17.81923	5.542495	1.330689	1.247603	0.7
-29	14.04	26.09985	0.232525	17.37748	5.405094	1.256821	1.216674	0.7
-29	14.04	26.09985	0.230348	16.69614	5.19317	1.196237	1.168971	0.7
-30	14.04	26.09985	0.226439	16.12711	5.016178	1.135856	1.12913	0.8
-30	14.04	26.09985	0.225249	15.30351	4.760006	1.072186	1.071467	0.8
-30	14.04	26.09985	0.225562	14.44997	4.494517	1.01379	1.011706	0.8
-31	14.04	26.09985	0.227827	13.52903	4.208071	0.958711	0.947227	0.7
-31	14.04	26.08249	0.22701	12.98995	4.040393	0.917211	0.909484	0.8
-31	14.04	26.08249	0.229627	12.38348	3.851758	0.884468	0.867022	0.7

-31	14.04	26.08249	0.231926	11.89681	3.700384	0.858213	0.832948	0.7
-32	14.04	26.08249	0.236391	11.41763	3.55134	0.839503	0.799399	0.7
-32	14.04	26.08249	0.23877	11.07321	3.444211	0.822375	0.775284	0.7
-32	14.04	26.08249	0.235059	10.93096	3.399965	0.799193	0.765325	0.7
-33	14.04	26.08249	0.228568	10.81865	3.365032	0.769138	0.757462	0.7
-33	14.04	26.08249	0.223032	10.64644	3.31147	0.738563	0.745404	0.8
-33	14.04	26.09985	0.220674	10.42931	3.243933	0.715852	0.730202	0.8
-33	14.04	26.09985	0.21829	10.32449	3.21133	0.701003	0.722863	0.8
-34	14.04	26.09985	0.217765	10.18223	3.16708	0.68968	0.712903	0.8
-34	14.04	26.08249	0.219801	9.980074	3.104202	0.682306	0.698749	0.8
-34	14.04	26.08249	0.224261	9.725507	3.025023	0.678395	0.680926	0.8
-35	14.04	26.08249	0.228904	9.50089	2.955157	0.676447	0.665199	0.7
-35	14.04	26.08249	0.23662	9.171451	2.852688	0.675003	0.642134	0.7
-35	14.04	26.08249	0.243546	8.879447	2.761864	0.67264	0.621689	0.7
-35	14.04	26.08249	0.249376	8.624881	2.682683	0.668996	0.603866	0.7
-36	14.04	26.08249	0.25479	8.385288	2.608161	0.664533	0.587091	0.7
-36	14.04	26.08249	0.258981	8.183132	2.545282	0.659181	0.572937	0.7
-36	14.04	26.08249	0.26379	8.018413	2.494047	0.657906	0.561405	0.6
-37	14.04	26.08249	0.272857	7.846206	2.440484	0.665903	0.549348	0.6
-37	14.04	26.06512	0.284675	7.748871	2.410209	0.686125	0.542533	0.6
-37	14.04	26.06512	0.300646	7.539228	2.345002	0.705015	0.527855	0.6
-38	14.04	26.06512	0.314351	7.329585	2.279794	0.716656	0.513177	0.5
-38	14.04	26.06512	0.318212	7.202302	2.240204	0.712859	0.504265	0.5
-38	14.04	26.06512	0.308522	7.104968	2.209928	0.681812	0.49745	0.6
-38	14.04	26.04776	0.290225	7.037582	2.18897	0.635293	0.492732	0.6
-39	14.04	26.04776	0.27465	6.857888	2.133077	0.585849	0.480151	0.6
-39	14.04	26.04776	0.261868	6.618296	2.058556	0.539069	0.463376	0.7
-39	14.04	26.04776	0.255613	6.25142	1.944441	0.497025	0.43769	0.7
-40	14.04	26.0304	0.248536	5.907006	1.837316	0.456639	0.413576	0.7
-40	14.04	26.0304	0.244647	5.517669	1.716216	0.419867	0.386316	0.7
-40	14.04	26.0304	0.239635	5.180743	1.611419	0.386152	0.362727	0.7
-40	14.04	26.01303	0.225903	5.090896	1.583472	0.35771	0.356436	0.8
-3	21.83	26.77706	0.140596	61.9641	19.27331	2.709758	5.413193	1.0
-3	21.83	26.77706	0.136726	62.20369	19.34784	2.645345	5.434124	1.0
-4	21.83	26.77706	0.128651	65.31839	20.31663	2.613763	5.706224	1.1
-4	21.83	26.77706	0.126069	66.15696	20.57746	2.594171	5.779482	1.1
-4	21.83	26.77706	0.127359	65.91737	20.50294	2.611226	5.758551	1.1
-4	21.83	26.77706	0.130543	65.43818	20.3539	2.657048	5.716689	1.1
-5	21.83	26.75969	0.133631	64.12042	19.94402	2.665134	5.601569	1.0
-5	21.83	26.7076	0.138976	61.48491	19.12427	2.657822	5.371331	1.0
-5	21.83	26.67287	0.14261	59.44838	18.49082	2.636968	5.193419	1.0
-6	21.83	26.62078	0.144896	58.60981	18.23	2.641452	5.120162	1.0
-6	21.83	26.58605	0.146565	58.96919	18.34177	2.688255	5.151557	0.9
-6	21.83	26.55132	0.148297	59.56817	18.52809	2.747652	5.203884	0.9
-7	21.83	26.49923	0.149736	60.40675	18.78892	2.81338	5.277143	0.9
-7	21.83	26.44714	0.149463	61.8443	19.23605	2.875075	5.402727	0.9
-7	21.83	26.41241	0.149473	63.16206	19.64592	2.936543	5.517847	0.9
-8	21.83	26.39504	0.149275	64.36002	20.01854	2.988257	5.622501	0.9
-8	21.83	26.36031	0.149981	65.0788	20.24211	3.035928	5.685294	0.9
-8	21.83	26.32559	0.152881	64.59961	20.09307	3.07184	5.643432	0.9
-9	21.83	26.30822	0.156252	63.40165	19.72045	3.081351	5.538778	0.9
-9	21.83	26.27349	0.163024	60.28695	18.75166	3.056972	5.266677	0.9
-9	21.83	26.27349	0.16765	57.41184	17.85737	2.993783	5.015507	0.8
-9	21.83	26.25613	0.173133	54.05755	16.81406	2.911073	4.722476	0.8
-10	21.83	26.23877	0.175952	51.66163	16.06884	2.827342	4.513168	0.8
-10	21.83	26.2214	0.173655	50.70326	15.77074	2.738673	4.429444	0.8
-10	21.83	26.2214	0.169376	50.82306	15.80801	2.677492	4.43991	0.8
-11	21.83	26.20404	0.167201	50.70326	15.77075	2.636884	4.429444	0.8
-11	21.83	26.20404	0.163727	51.30224	15.95705	2.612593	4.481771	0.8
-11	21.83	26.18667	0.162988	51.42204	15.99431	2.606882	4.492237	0.9
-12	21.83	26.18667	0.162026	51.78143	16.1061	2.609608	4.523633	0.9
-12	21.83	26.18667	0.16473	51.42204	15.99431	2.634748	4.492237	0.8
-12	21.83	26.18667	0.170006	50.58347	15.73348	2.67479	4.41898	0.8
-12	21.83	26.16931	0.177478	49.02612	15.24908	2.706378	4.282929	0.8
-13	21.83	26.16931	0.186178	47.10938	14.6529	2.728053	4.115482	0.7
-13	21.83	26.15194	0.194859	45.19264	14.05672	2.739078	3.948036	0.7
-13	21.83	26.15194	0.203804	43.15611	13.42327	2.735712	3.770124	0.7
-14	21.83	26.15194	0.212029	41.35917	12.86436	2.727617	3.613143	0.7
-14	21.83	26.15194	0.220537	39.44243	12.26817	2.705587	3.445697	0.6
-14	21.83	26.15194	0.228506	37.76528	11.74651	2.684146	3.299181	0.6
-15	21.83	26.15194	0.236301	36.08814	11.22486	2.652439	3.152665	0.6

-15	21.83	26.15194	0.243077	34.53079	10.74045	2.610757	3.016615	0.6
-15	21.83	26.15194	0.24903	33.09324	10.29332	2.563348	2.89103	0.6
-15	21.83	26.13458	0.252913	31.89527	9.920705	2.50907	2.786376	0.5
-16	21.83	26.13458	0.26063	30.45772	9.47357	2.4691	2.660791	0.5
-16	21.83	26.13458	0.271551	28.90037	8.989171	2.441021	2.524741	0.5
-16	21.83	26.13458	0.284705	27.34302	8.504774	2.421352	2.38869	0.5
-16	21.83	26.13458	0.302726	25.66588	7.983114	2.416698	2.242175	0.5
-17	21.83	26.13458	0.317554	24.46791	7.610501	2.416746	2.13752	0.4
-17	21.83	26.13458	0.329294	23.25498	7.233231	2.381861	2.031559	0.4
-17	21.83	26.13458	0.337704	22.05702	6.860615	2.316857	1.926905	0.4
-18	21.83	26.13458	0.33991	21.13609	6.574169	2.234625	1.846452	0.4
-18	21.83	26.11722	0.343996	20.02048	6.227172	2.142125	1.748992	0.4
-18	21.83	26.13458	0.346606	19.0696	5.93141	2.05586	1.665923	0.4
-18	21.83	26.11722	0.351394	17.90908	5.57044	1.957419	1.56454	0.4
-19	21.83	26.09985	0.354897	17.02558	5.295636	1.879407	1.487357	0.4
-19	21.83	26.11722	0.367051	15.96239	4.964942	1.822385	1.394477	0.4
-19	21.83	26.09985	0.384443	14.98905	4.662194	1.792349	1.309446	0.4
-20	21.83	26.09985	0.396764	14.34514	4.461914	1.770327	1.253194	0.4
-20	21.83	26.09985	0.404806	13.76114	4.280265	1.732675	1.202175	0.3
-20	21.83	26.08249	0.401732	13.39426	4.166152	1.673676	1.170125	0.3
-20	21.83	26.08249	0.383997	13.3119	4.140534	1.589952	1.16293	0.4
-21	21.83	26.08249	0.370441	12.86267	4.000805	1.482063	1.123685	0.4
-21	21.83	26.08249	0.36749	12.20379	3.795867	1.394943	1.066125	0.4
-21	21.83	26.06512	0.37486	11.35773	3.532708	1.324271	0.992213	0.4
-22	21.83	26.08249	0.408784	10.15977	3.160094	1.291797	0.887559	0.3
-22	21.83	26.06512	0.442319	9.351145	2.90858	1.28652	0.816917	0.3
-22	21.83	26.06512	0.503006	8.280467	2.575556	1.295521	0.723383	0.3
-23	21.83	26.06512	0.542384	7.733897	2.405552	1.304732	0.675634	0.3
-23	21.83	26.04776	0.543745	7.666512	2.384592	1.29661	0.669748	0.3
-23	21.83	26.04776	0.508085	7.921078	2.463773	1.251805	0.691987	0.3
-23	21.83	26.04776	0.473052	8.048362	2.503363	1.18422	0.703106	0.3
-24	21.83	26.04776	0.462958	7.778821	2.419525	1.120137	0.679559	0.3
-24	21.83	26.04776	0.451576	7.524254	2.340344	1.056843	0.65732	0.3
-24	21.83	26.04776	0.432545	7.389483	2.298425	0.994171	0.645546	0.3
-25	21.83	26.04776	0.42029	7.187327	2.235546	0.939578	0.627886	0.3
-25	21.83	26.04776	0.410749	6.917786	2.151709	0.883812	0.604339	0.3
-25	21.83	26.04776	0.401358	6.678194	2.077185	0.833696	0.583408	0.3
-25	21.83	26.0304	0.404137	6.311318	1.963072	0.793351	0.551358	0.3
-26	21.83	26.0304	0.408352	5.959417	1.853617	0.756928	0.520616	0.3
-26	21.83	26.0304	0.413313	5.644952	1.755806	0.725697	0.493144	0.3
-26	21.83	26.04776	0.422569	5.300539	1.648679	0.696681	0.463056	0.3
-27	21.83	26.0304	0.449315	4.813867	1.497305	0.672762	0.42054	0.3
-27	21.83	26.0304	0.445717	4.701558	1.462372	0.651804	0.410729	0.3
-27	21.83	26.0304	0.441752	4.604224	1.432098	0.632632	0.402226	0.3
-27	21.83	26.0304	0.444828	4.439504	1.380863	0.614247	0.387836	0.3
-28	21.83	26.0304	0.416464	4.566788	1.420453	0.591567	0.398955	0.3
-28	21.83	26.0304	0.400933	4.551813	1.415796	0.567639	0.397647	0.3
-28	21.83	26.0304	0.404353	4.327195	1.345931	0.544231	0.378024	0.3
-28	21.83	26.0304	0.381378	4.379606	1.362233	0.519526	0.382603	0.4
-29	21.83	26.0304	0.369628	4.297246	1.336615	0.49405	0.375408	0.4
-29	21.83	26.01303	0.363104	4.162476	1.294697	0.470109	0.363635	0.4
-29	21.83	26.0304	0.357543	4.087603	1.271408	0.454583	0.357094	0.4
-30	21.83	26.01303	0.367624	3.870473	1.203872	0.442572	0.338125	0.4
-30	21.83	26.0304	0.358542	3.885447	1.208529	0.433308	0.339433	0.4
-30	21.83	26.0304	0.375817	3.645855	1.134007	0.426179	0.318502	0.4
-31	21.83	26.0304	0.365813	3.675804	1.143322	0.418242	0.321119	0.4
-31	21.83	26.0304	0.372984	3.548521	1.103732	0.411675	0.309999	0.4
-31	21.83	26.0304	0.38261	3.41375	1.061813	0.40626	0.298226	0.4
-31	21.83	26.0304	0.370376	3.443699	1.071128	0.39672	0.300842	0.4
-32	21.83	26.04776	0.38377	3.241543	1.00825	0.386936	0.283182	0.4
-32	21.83	26.04776	0.377121	3.241543	1.008249	0.380232	0.283182	0.4
-32	21.83	26.04776	0.387575	3.084311	0.959344	0.371818	0.269446	0.4
-33	21.83	26.04776	0.399182	2.957027	0.919754	0.36715	0.258326	0.3
-33	21.83	26.04776	0.407941	2.86718	0.891808	0.363805	0.250477	0.3
-33	21.83	26.04776	0.421545	2.747384	0.854546	0.360229	0.240012	0.3
-34	21.83	26.06512	0.435657	2.612614	0.812627	0.354026	0.228238	0.3
-34	21.83	26.04776	0.447855	2.462868	0.766051	0.34308	0.215157	0.3
-34	21.83	26.04776	0.44954	2.35056	0.731118	0.328667	0.205345	0.3
-34	21.83	26.04776	0.44662	2.208302	0.68687	0.30677	0.192918	0.3
-35	21.83	26.04776	0.451567	2.051069	0.637965	0.288084	0.179182	0.3
-35	21.83	26.04776	0.493739	1.781528	0.554127	0.273594	0.155635	0.3

-35	21.83	26.06512	0.480297	1.774041	0.551798	0.265027	0.15498	0.3
-35	21.83	26.06512	0.514537	1.631783	0.50755	0.261153	0.142553	0.3
-36	21.83	26.04776	0.559799	1.474551	0.458644	0.256749	0.128817	0.2
-36	21.83	26.06512	0.470983	1.684194	0.523852	0.246725	0.147131	0.3
-36	21.83	26.06512	0.434777	1.699168	0.528509	0.229784	0.14844	0.3
-36	21.83	26.06512	0.385255	1.759066	0.54714	0.210789	0.153672	0.4
-37	21.83	26.06512	0.350199	1.781528	0.554126	0.194055	0.155635	0.4
-37	21.83	26.06512	0.32353	1.774041	0.551798	0.178523	0.15498	0.4
-37	21.83	26.06512	0.328059	1.661732	0.516865	0.169562	0.145169	0.4
-38	21.83	26.06512	0.342825	1.549423	0.481933	0.165218	0.135358	0.4
-38	21.83	26.08249	0.373568	1.399678	0.435356	0.162635	0.122276	0.4
-38	21.83	26.08249	0.402768	1.279882	0.398095	0.16034	0.111811	0.3
-38	21.83	26.08249	0.418521	1.212497	0.377135	0.157839	0.105924	0.3
-39	21.83	26.06512	0.402873	1.219984	0.379464	0.152876	0.106578	0.3
-39	21.83	26.06512	0.384915	1.234958	0.384122	0.147854	0.107886	0.4
-39	21.83	26.04776	0.377496	1.205009	0.374806	0.141488	0.10527	0.4
-39	21.83	26.04776	0.372478	1.160086	0.360833	0.134402	0.101345	0.4
-40	21.83	26.0304	0.375311	1.085213	0.337545	0.126684	0.094804	0.4
-40	21.83	26.0304	0.387857	0.995366	0.309599	0.12008	0.086955	0.4
-40	21.83	26.0304	0.376621	0.980392	0.304941	0.114847	0.085647	0.4
-41	21.83	26.0304	0.387196	0.913006	0.283981	0.109956	0.07976	0.4
-41	21.83	26.01303	0.381675	0.87557	0.272337	0.103944	0.07649	0.4
-41	21.83	26.01303	0.383911	0.823159	0.256036	0.098295	0.071911	0.4
-42	21.83	26.01303	0.3898	0.763261	0.237405	0.09254	0.066679	0.4
-42	21.83	26.01303	0.419806	0.65844	0.204801	0.085977	0.057521	0.3
-42	21.83	26.01303	0.403336	0.65844	0.204801	0.082604	0.057521	0.3
-42	21.83	26.01303	0.403858	0.621003	0.193157	0.078008	0.054251	0.3
-43	21.83	26.01303	0.412276	0.561105	0.174526	0.071953	0.049018	0.3
-43	21.83	26.01303	0.408546	0.523669	0.162882	0.066545	0.045748	0.3
-43	21.83	25.99567	0.436239	0.448797	0.139594	0.060896	0.039207	0.3
-43	21.83	25.99567	0.471125	0.388898	0.120963	0.056989	0.033974	0.3
-44	21.83	25.99567	0.409309	0.418847	0.130278	0.053324	0.036591	0.3
-44	21.83	25.99567	0.348069	0.456284	0.141923	0.049399	0.039861	0.4
-44	21.83	25.99567	0.397589	0.381411	0.118634	0.047168	0.03332	0.3
-45	21.83	25.9783	0.39273	0.373924	0.116305	0.045677	0.032666	0.4
-45	21.83	25.99567	0.535345	0.254128	0.079044	0.042316	0.022201	0.3
-45	21.83	25.9783	0.532687	0.246641	0.076715	0.040865	0.021547	0.3
-45	21.83	25.9783	0.390216	0.329	0.102332	0.039932	0.028742	0.4
-46	21.83	25.9783	0.415801	0.284077	0.088359	0.03674	0.024817	0.3
-46	21.83	25.9783	0.408893	0.269102	0.083702	0.034225	0.023509	0.3
-46	21.83	25.9783	0.684222	0.164281	0.051098	0.034962	0.014352	0.2
-46	21.83	25.9783	0.458404	0.231666	0.072057	0.033031	0.020238	0.3
-47	21.83	25.9783	0.563732	0.171768	0.053427	0.030118	0.015006	0.2
-47	21.83	25.9783	0.618108	0.149306	0.04644	0.028705	0.013043	0.2
-3	32.54	26.18667	0.185798	8.692266	2.703641	0.502331	7.35422	0.9
-3	32.54	26.16931	0.178119	8.310415	2.584872	0.460414	7.031149	1.0
-3	32.54	26.16931	0.164071	8.32539	2.589529	0.424866	7.043819	1.0
-4	32.54	26.16931	0.17272	7.584152	2.358974	0.407443	6.416683	1.0
-4	32.54	26.16931	0.172912	7.149891	2.223903	0.38454	6.049271	1.0
-4	32.54	26.16931	0.175597	6.558398	2.039924	0.358204	5.548829	1.0
-4	32.54	26.16931	0.176148	6.311318	1.963073	0.345792	5.339784	1.0
-5	32.54	26.16931	0.17687	5.981879	1.860604	0.329086	5.061057	1.0
-5	32.54	26.18667	0.171004	5.817159	1.80937	0.30941	4.921693	1.0
-5	32.54	26.16931	0.170199	5.592542	1.739504	0.296062	4.731653	1.0
-5	32.54	26.15194	0.177923	5.150794	1.602103	0.285051	4.357905	1.0
-6	32.54	26.13458	0.19181	4.88874	1.520593	0.291665	4.13619	0.9
-6	32.54	26.13458	0.202568	4.836329	1.504292	0.304721	4.091847	0.8
-6	32.54	26.11722	0.251108	4.169963	1.297025	0.325693	3.528059	0.7
-6	32.54	26.09985	0.259809	4.267297	1.3273	0.344845	3.610409	0.7
-7	32.54	26.09985	0.251925	4.394581	1.36689	0.344353	3.7181	0.7
-7	32.54	26.08249	0.242438	4.319708	1.343602	0.32574	3.654753	0.7
-7	32.54	26.08249	0.214695	4.521864	1.40648	0.301965	3.82579	0.8
-7	32.54	26.08249	0.194223	4.581762	1.425111	0.27679	3.876467	0.9
-8	32.54	26.06512	0.224855	4.417042	1.373877	0.308924	3.737103	0.8
-8	32.54	26.06512	0.202297	4.589249	1.42744	0.288767	3.882802	0.8
-8	32.54	26.06512	0.193522	4.469453	1.390179	0.26903	3.781447	0.9
-9	32.54	26.06512	0.184177	4.446991	1.383192	0.254753	3.762442	0.9
-9	32.54	26.04776	0.18829	4.184937	1.301683	0.245094	3.540728	0.9
-9	32.54	26.04776	0.164053	4.589249	1.42744	0.234176	3.882802	1.0
-9	32.54	26.04776	0.136287	4.432017	1.378535	0.187876	3.749773	1.2
-10	32.54	26.04776	0.127783	4.761456	1.481003	0.189246	4.0285	1.3

-10	32.54	26.0304	0.13266	4.738995	1.474017	0.195543	4.009496	1.3
-10	32.54	26.04776	0.131322	5.120844	1.592787	0.209167	4.332565	1.3
-11	32.54	26.04776	0.14123	5.113357	1.590459	0.224621	4.326231	1.2
-11	32.54	26.04776	0.157389	4.866278	1.513607	0.238225	4.117186	1.1
-11	32.54	26.04776	0.168088	4.828842	1.501963	0.252461	4.085513	1.0
-11	32.54	26.04776	0.189333	4.566788	1.420454	0.268938	3.863798	0.9
-12	32.54	26.04776	0.211162	4.379606	1.362233	0.287652	3.70543	0.8
-12	32.54	26.04776	0.237086	4.102578	1.276066	0.302537	3.471047	0.7
-12	32.54	26.04776	0.264174	3.87796	1.206201	0.318646	3.281005	0.6
-13	32.54	26.04776	0.288215	3.71324	1.154966	0.332878	3.141641	0.6
-13	32.54	26.04776	0.308666	3.608419	1.122362	0.346435	3.052956	0.6
-13	32.54	26.0304	0.344289	3.323903	1.033867	0.355949	2.812237	0.5
-13	32.54	26.0304	0.363549	3.19662	0.994276	0.361469	2.704547	0.5
-14	32.54	26.0304	0.369705	3.144209	0.977975	0.361562	2.660204	0.5
-14	32.54	26.0304	0.364114	3.151696	0.980304	0.356942	2.666539	0.5
-14	32.54	26.0304	0.373945	2.986976	0.929069	0.34742	2.527175	0.5
-14	32.54	26.0304	0.368835	2.927078	0.910438	0.335802	2.476497	0.5
-15	32.54	26.0304	0.371293	2.829744	0.880164	0.326799	2.394147	0.5
-15	32.54	26.0304	0.38048	2.679999	0.833587	0.317163	2.267453	0.4
-15	32.54	26.0304	0.389129	2.545228	0.791668	0.308061	2.153428	0.4
-15	32.54	26.0304	0.39667	2.43292	0.756735	0.300174	2.058408	0.4
-16	32.54	26.0304	0.399635	2.35056	0.731118	0.29218	1.988726	0.4
-16	32.54	26.0304	0.402462	2.2682	0.705501	0.283937	1.919044	0.4
-16	32.54	26.01303	0.406792	2.193327	0.682213	0.277519	1.855697	0.4
-17	32.54	26.01303	0.401963	2.155891	0.670568	0.269543	1.824023	0.4
-17	32.54	26.0304	0.387965	2.170866	0.675226	0.261964	1.836693	0.4
-17	32.54	26.01303	0.392676	2.088506	0.649609	0.255086	1.767011	0.4
-17	32.54	26.01303	0.4357	1.841426	0.572757	0.24955	1.557966	0.4
-18	32.54	26.0304	0.403648	1.953735	0.60769	0.245293	1.652986	0.4
-18	32.54	26.01303	0.412705	1.88635	0.58673	0.242146	1.595974	0.4
-18	32.54	26.0304	0.453492	1.72163	0.535496	0.242843	1.45661	0.4
-19	32.54	26.0304	0.447425	1.729117	0.537825	0.240636	1.462945	0.4
-19	32.54	26.01303	0.465633	1.654245	0.514536	0.239585	1.399598	0.4
-19	32.54	26.01303	0.506633	1.511987	0.470288	0.238264	1.279239	0.3
-19	32.54	26.0304	0.473985	1.586859	0.493577	0.233948	1.342585	0.4
-20	32.54	26.01303	0.477981	1.541936	0.479604	0.229241	1.304578	0.4
-20	32.54	26.01303	0.4622	1.549423	0.481933	0.222749	1.310912	0.4
-20	32.54	26.0304	0.462906	1.5045	0.46796	0.216621	1.272904	0.4
-20	32.54	26.0304	0.465817	1.444602	0.449329	0.209305	1.222227	0.4
-21	32.54	26.0304	0.507414	1.279882	0.398095	0.201999	1.082863	0.3
-21	32.54	26.0304	0.568353	1.107675	0.344531	0.195815	0.937165	0.3
-21	32.54	26.0304	0.542212	1.130137	0.351518	0.190597	0.956169	0.3
-22	32.54	26.0304	0.573909	1.047777	0.325901	0.187037	0.886487	0.3
-22	32.54	26.04776	0.548811	1.085213	0.337545	0.185248	0.91816	0.3
-22	32.54	26.04776	0.534837	1.0927	0.339874	0.181777	0.924495	0.3
-22	32.54	26.04776	0.596228	0.95793	0.297955	0.177649	0.810471	0.3
-23	32.54	26.04776	0.577085	0.95793	0.297955	0.171945	0.810471	0.3
-23	32.54	26.04776	0.516403	1.017828	0.316585	0.163486	0.861148	0.3
-23	32.54	26.04776	0.501206	0.980392	0.304941	0.152838	0.829475	0.3
-23	32.54	26.04776	0.456713	1.002853	0.311928	0.142461	0.848479	0.4
-24	32.54	26.04776	0.443906	0.980392	0.304941	0.135365	0.829475	0.4
-24	32.54	26.06512	0.436882	0.942955	0.293297	0.128136	0.797801	0.4
-24	32.54	26.06512	0.434011	0.913006	0.283982	0.123251	0.772463	0.4
-24	32.54	26.06512	0.432362	0.87557	0.272337	0.117748	0.740789	0.4
-25	32.54	26.06512	0.452024	0.800698	0.249049	0.112576	0.677442	0.4
-25	32.54	26.06512	0.482958	0.718338	0.223432	0.107908	0.60776	0.4
-25	32.54	26.06512	0.483039	0.688389	0.214116	0.103427	0.582421	0.4
-26	32.54	26.08249	0.417361	0.740799	0.230418	0.096168	0.626764	0.4
-26	32.54	26.08249	0.345129	0.823159	0.256035	0.088365	0.696446	0.5
-26	32.54	26.08249	0.289634	0.890545	0.276995	0.080227	0.753458	0.6
-26	32.54	26.08249	0.258848	0.905519	0.281653	0.072905	0.766128	0.7
-27	32.54	26.08249	0.24957	0.860596	0.26768	0.066805	0.72812	0.7
-27	32.54	26.08249	0.246716	0.808185	0.251378	0.062019	0.683777	0.7
-27	32.54	26.08249	0.251616	0.748287	0.232747	0.058563	0.633099	0.7
-28	32.54	26.08249	0.256813	0.718338	0.223432	0.05738	0.60776	0.7
-28	32.54	26.08249	0.252607	0.733312	0.228089	0.057617	0.62043	0.7
-28	32.54	26.08249	0.254779	0.725825	0.225761	0.057519	0.614095	0.7
-28	32.54	26.08249	0.250738	0.718338	0.223432	0.056023	0.60776	0.7
-29	32.54	26.08249	0.257619	0.680901	0.211788	0.054561	0.576087	0.7
-29	32.54	26.08249	0.265987	0.635978	0.197815	0.052616	0.538078	0.6
-29	32.54	26.06512	0.251452	0.650952	0.202472	0.050912	0.550748	0.7

-30	32.54	26.06512	0.26352	0.613516	0.190828	0.050287	0.519074	0.6
-30	32.54	26.06512	0.286679	0.553618	0.172197	0.049365	0.468397	0.6
-30	32.54	26.06512	0.323466	0.486233	0.151238	0.04892	0.411384	0.5
-30	32.54	26.06512	0.410776	0.388898	0.120963	0.049689	0.329033	0.4
-31	32.54	26.04776	0.440518	0.366437	0.113976	0.050209	0.310029	0.4
-31	32.54	26.04776	0.498503	0.329	0.102332	0.051013	0.278356	0.3
-31	32.54	26.04776	0.365329	0.463771	0.144251	0.052699	0.39238	0.5
-31	32.54	26.04776	0.382003	0.433822	0.134936	0.051546	0.367041	0.4
-32	32.54	26.04776	0.378545	0.418847	0.130278	0.049316	0.354372	0.4
-32	32.54	26.04776	0.372354	0.403873	0.125621	0.046775	0.341703	0.5
-32	32.54	26.0304	0.481477	0.299051	0.093017	0.044785	0.253017	0.4
-33	32.54	26.04776	0.393394	0.351462	0.109319	0.043005	0.29736	0.4
-33	32.54	26.04776	0.360677	0.396386	0.123292	0.044469	0.335368	0.5
-33	32.54	26.0304	0.454732	0.314026	0.097675	0.044416	0.265686	0.4
-33	32.54	26.0304	0.40364	0.336488	0.104661	0.042245	0.28469	0.4
-34	32.54	26.0304	0.451746	0.291564	0.090688	0.040968	0.246682	0.4
-34	32.54	26.0304	0.596189	0.216692	0.0674	0.040183	0.183335	0.3
-34	32.54	26.0304	0.389309	0.314026	0.097675	0.038026	0.265686	0.4
-34	32.54	26.0304	0.357508	0.321513	0.100003	0.035752	0.272021	0.5
-35	32.54	26.0304	0.356047	0.314026	0.097675	0.034777	0.265686	0.5
-35	32.54	26.0304	0.404707	0.27659	0.08603	0.034817	0.234013	0.4
-35	32.54	26.01303	0.428208	0.246641	0.076715	0.03285	0.208674	0.4
-36	32.54	26.01303	0.821573	0.126844	0.039454	0.032414	0.107319	0.2
-36	32.54	25.99567	0.509578	0.201717	0.062742	0.031972	0.170666	0.3
-36	32.54	25.99567	0.309903	0.314026	0.097675	0.03027	0.265686	0.5
-36	32.54	25.9783	0.372244	0.27659	0.08603	0.032024	0.234013	0.5
-37	32.54	25.96094	0.687658	0.141819	0.044111	0.030334	0.119988	0.2
-37	32.54	25.94357	0.391462	0.231666	0.072057	0.028208	0.196004	0.4
-37	32.54	25.92621	0.362999	0.239153	0.074386	0.027002	0.202339	0.5
-37	32.54	25.90885	0.596475	0.134332	0.041783	0.024922	0.113653	0.3
-38	32.54	25.89148	0.608188	0.156793	0.048769	0.029661	0.132657	0.3
-38	32.54	25.85675	0.358579	0.246641	0.076715	0.027508	0.208674	0.5
-38	32.54	25.82202	0.669047	0.141819	0.044111	0.029513	0.119988	0.3
-39	32.54	25.76993	0.705661	0.119357	0.037125	0.026198	0.100984	0.2
-39	32.54	25.71784	0.460424	0.186743	0.058084	0.026743	0.157996	0.4
-39	32.54	25.64838	1.627234	0.044485	0.013836	0.022515	0.037637	0.1
-39	32.54	25.57893	0.299953	0.231666	0.072057	0.021614	0.196004	0.6
-40	32.54	25.52683	0.483288	0.126844	0.039454	0.019068	0.107319	0.4
-40	32.54	25.45738	0.363593	0.141819	0.044111	0.016039	0.119988	0.5
-40	32.54	25.42265	0.302657	0.164281	0.051098	0.015465	0.138992	0.6
-40	32.54	25.38792	6.254603	0.007048	0.002192	0.013712	0.005963	0.0
-41	32.54	25.31846	0.196699	0.224179	0.069729	0.013716	0.18967	0.9
-41	32.54	25.28373	1.036386	0.036997	0.011508	0.011926	0.031302	0.2
-41	32.54	25.21428	0.177104	0.201717	0.062742	0.011112	0.170666	1.0
-42	32.54	25.16218	1.863665	0.022023	0.00685	0.012766	0.018633	0.1
-42	32.54	25.11009	0.262639	0.149306	0.04644	0.012197	0.126323	0.6
-42	32.54	25.058	0.422945	0.081921	0.025481	0.010777	0.06931	0.4
-3	57.58	26.98543	0.748352	41.71856	12.97614	9.710716	18.16884	0.1
-3	57.58	26.98543	0.515295	47.22918	14.69016	7.569772	20.56877	0.2
-3	57.58	26.98543	0.420071	42.79672	13.31149	5.591773	18.63839	0.2
-3	57.58	26.98543	0.307233	43.63529	13.57232	4.16987	19.00359	0.3
-3	57.58	26.98543	0.252407	40.99978	12.75257	3.21884	17.8558	0.4
-3	57.58	26.98543	0.217397	37.1663	11.56021	2.513158	16.18628	0.5
-3	57.58	26.98543	0.198223	33.09324	10.29332	2.040374	14.41243	0.5
-3	57.58	26.98543	0.195054	28.54098	8.877391	1.731567	12.42987	0.5
-4	57.58	26.98543	0.183171	26.98363	8.39299	1.537356	11.75163	0.6
-4	57.58	26.98543	0.172274	25.54608	7.945853	1.368866	11.12557	0.6
-4	57.58	26.98543	0.1637	23.66678	7.361317	1.205048	10.30711	0.6
-4	57.58	26.96806	0.129116	26.90127	8.367374	1.080359	11.71576	0.8
-5	57.58	26.96806	0.10264	31.1765	9.697136	0.995315	13.57767	1.0
-5	57.58	26.96806	0.101477	29.97854	9.324526	0.946222	13.05595	1.0
-5	57.58	26.96806	0.094447	30.81711	9.585355	0.905305	13.42115	1.1
-6	57.58	26.96806	0.097061	29.25976	9.100957	0.883352	12.74291	1.0
-6	57.58	26.96806	0.098529	28.42119	8.840128	0.871013	12.3777	1.0
-6	57.58	26.96806	0.110299	25.0669	7.796808	0.859979	10.91688	0.9
-7	57.58	26.96806	0.116232	23.25498	7.233228	0.840736	10.12777	0.9
-7	57.58	26.96806	0.118436	22.34902	6.951441	0.823303	9.733215	0.9
-7	57.58	26.96806	0.114425	22.85815	7.109803	0.813539	9.954946	0.9
-7	57.58	26.9507	0.114969	22.1843	6.900207	0.793307	9.661478	0.9
-8	57.58	26.9507	0.114918	21.39814	6.655676	0.764854	9.319098	0.9
-8	57.58	26.9507	0.111969	21.29332	6.62307	0.741581	9.273448	0.9

-8	57.58	26.9507	0.106435	21.72758	6.758146	0.719305	9.462572	1.0
-9	57.58	26.9507	0.107573	20.96388	6.520607	0.701438	9.129973	0.9
-9	57.58	26.9507	0.107608	20.49967	6.376217	0.686133	8.927805	0.9
-9	57.58	26.93333	0.10819	20.15526	6.269094	0.678251	8.777812	0.9
-10	57.58	26.91597	0.108423	19.99054	6.21786	0.674158	8.706074	0.9
-10	57.58	26.89861	0.109719	19.78838	6.154978	0.675315	8.618032	0.9
-11	57.58	26.86388	0.110538	19.68356	6.122373	0.676753	8.572382	0.9
-11	57.58	26.82915	0.110753	19.72099	6.134018	0.679363	8.588683	0.9
-11	57.58	26.81178	0.113061	19.44397	6.047851	0.683776	8.468038	0.9
-12	57.58	26.79442	0.115762	19.11453	5.945386	0.688249	8.324564	0.9
-12	57.58	26.77706	0.116784	18.99473	5.908121	0.689972	8.27239	0.9
-12	57.58	26.75969	0.120124	18.5455	5.768391	0.692925	8.076745	0.8
-13	57.58	26.74233	0.123202	18.03636	5.610031	0.691169	7.85501	0.8
-13	57.58	26.72496	0.125941	17.50477	5.444681	0.68571	7.623497	0.8
-13	57.58	26.72496	0.127626	17.07799	5.311938	0.677942	7.437631	0.8
-13	57.58	26.7076	0.130043	16.47153	5.123304	0.666247	7.173511	0.8
-14	57.58	26.69023	0.131424	15.96239	4.964942	0.652511	6.951776	0.8
-14	57.58	26.69023	0.131411	15.53562	4.832199	0.635004	6.765913	0.8
-14	57.58	26.67287	0.130973	15.09387	4.694795	0.614893	6.573527	0.8
-15	57.58	26.65551	0.13067	14.65212	4.557394	0.595512	6.381141	0.8
-15	57.58	26.65551	0.129135	14.29273	4.445614	0.574083	6.224623	0.8
-15	57.58	26.65551	0.12741	13.97827	4.347803	0.553951	6.087672	0.8
-15	57.58	26.63814	0.12547	13.68627	4.256978	0.534124	5.960504	0.8
-16	57.58	26.62078	0.122802	13.50657	4.201085	0.5159	5.882242	0.8
-16	57.58	26.62078	0.120273	13.32688	4.145192	0.498553	5.803986	0.8
-16	57.58	26.62078	0.11961	13.00493	4.045052	0.483827	5.663773	0.8
-17	57.58	26.60341	0.117326	12.78031	3.975188	0.466393	5.565949	0.9
-17	57.58	26.58605	0.116293	12.51825	3.893677	0.452808	5.45182	0.9
-17	57.58	26.58605	0.115708	12.2562	3.812166	0.441099	5.337694	0.9
-18	57.58	26.56869	0.115692	11.9642	3.721345	0.43053	5.210525	0.9
-18	57.58	26.56869	0.114732	11.74707	3.653809	0.41921	5.115963	0.9
-18	57.58	26.55132	0.114575	11.47004	3.567641	0.408764	4.995314	0.9
-19	57.58	26.53396	0.113442	11.33527	3.525721	0.399964	4.93662	0.9
-19	57.58	26.53396	0.112879	11.13311	3.462843	0.390883	4.848578	0.9
-19	57.58	26.51659	0.114314	10.76624	3.348729	0.382805	4.688802	0.9
-20	57.58	26.51659	0.114971	10.54911	3.281195	0.377243	4.59424	0.9
-20	57.58	26.49923	0.115938	10.317	3.209	0.372044	4.493154	0.9
-20	57.58	26.49923	0.120833	9.807867	3.050638	0.368619	4.271421	0.8
-21	57.58	26.48186	0.124991	9.463453	2.943512	0.367912	4.121426	0.8
-21	57.58	26.4645	0.127955	9.313708	2.896936	0.370676	4.05621	0.8
-21	57.58	26.44714	0.133269	9.156476	2.848032	0.379555	3.987734	0.8
-22	57.58	26.41241	0.137966	9.074116	2.822414	0.389396	3.951866	0.7
-22	57.58	26.37768	0.142107	8.976782	2.792138	0.396783	3.909476	0.7
-22	57.58	26.30822	0.148158	8.699753	2.705971	0.400911	3.788827	0.7
-22	57.58	26.2214	0.156166	8.265492	2.570899	0.401487	3.599702	0.6
-23	57.58	26.11722	0.164211	7.853693	2.442812	0.401137	3.42036	0.6
-23	57.58	26.01303	0.168711	7.629076	2.372948	0.400342	3.322537	0.6
-23	57.58	25.90885	0.174153	7.389483	2.298425	0.400277	3.218192	0.6
-23	57.58	25.7873	0.178015	7.209789	2.242533	0.399205	3.139933	0.6
-24	57.58	25.66575	0.181183	7.067531	2.198285	0.398291	3.077978	0.6
-24	57.58	25.50947	0.182369	6.955222	2.163353	0.394528	3.029067	0.6
-24	57.58	25.33583	0.182691	6.835426	2.126092	0.388417	2.976894	0.6
-25	57.58	25.16218	0.178755	6.79799	2.114447	0.377968	2.960591	0.6
-25	57.58	24.98854	0.174356	6.71563	2.08883	0.3642	2.924722	0.6
-25	57.58	24.76281	0.172078	6.543423	2.035266	0.350225	2.849724	0.6
-25	57.58	24.48498	0.169212	6.41614	1.995676	0.337693	2.794291	0.6
-26	57.58	24.15506	0.168208	6.213984	1.932798	0.325113	2.70625	0.6
-26	57.58	23.80778	0.164326	6.079213	1.890879	0.310721	2.647556	0.6
-26	57.58	23.47786	0.163335	5.884545	1.830329	0.298957	2.562777	0.6
-27	57.58	23.21739	0.164677	5.667414	1.762793	0.290291	2.468214	0.6
-27	57.58	23.00902	0.173016	5.323	1.655666	0.286456	2.318218	0.6
-27	57.58	22.81802	0.185973	4.948637	1.539224	0.286254	2.15518	0.5
-27	57.58	22.64438	0.195932	4.731507	1.471688	0.28835	2.060617	0.5
-28	57.58	22.4881	0.198683	4.694071	1.460044	0.290085	2.044314	0.5
-28	57.58	22.34918	0.195152	4.738995	1.474017	0.287658	2.063878	0.5
-28	57.58	22.21027	0.194471	4.694071	1.460043	0.283936	2.044314	0.5
-28	57.58	22.10609	0.191614	4.679096	1.455386	0.278872	2.037792	0.5
-29	57.58	22.01926	0.176683	4.918689	1.529909	0.270308	2.142137	0.6
-29	57.58	21.93244	0.171509	4.911201	1.52758	0.261993	2.138876	0.6
-29	57.58	21.86299	0.172344	4.783918	1.48799	0.256445	2.083443	0.6
-29	57.58	21.81089	0.175385	4.611711	1.434426	0.251576	2.008445	0.6

-30	57.58	21.7588	0.179618	4.432017	1.378534	0.247609	1.930186	0.6
-30	57.58	21.70671	0.18691	4.214887	1.310999	0.245038	1.835624	0.5
-30	57.58	21.65462	0.200855	3.885447	1.20853	0.242739	1.69215	0.5
-30	57.58	21.60252	0.211522	3.675804	1.143322	0.241837	1.600848	0.5
-31	57.58	21.55043	0.218092	3.541033	1.101403	0.240207	1.542154	0.5
-31	57.58	21.5157	0.222044	3.451186	1.073457	0.238355	1.503025	0.5
-31	57.58	21.44625	0.217693	3.428725	1.066471	0.232163	1.493243	0.5
-31	57.58	21.37679	0.211286	3.406263	1.059484	0.223854	1.483461	0.5
-32	57.58	21.3247	0.213873	3.256518	1.012907	0.216634	1.418245	0.5
-32	57.58	21.2726	0.205661	3.301441	1.02688	0.211189	1.43781	0.5
-32	57.58	21.23787	0.19994	3.33139	1.036195	0.207177	1.450853	0.5
-32	57.58	21.15105	0.194149	3.398776	1.057155	0.205246	1.4802	0.5
-33	57.58	21.06423	0.189406	3.518572	1.094416	0.207289	1.532372	0.5
-33	57.58	20.97741	0.193258	3.533546	1.099074	0.212404	1.538894	0.5
-33	57.58	20.92532	0.20085	3.49611	1.08743	0.21841	1.52259	0.5
-34	57.58	20.85586	0.217562	3.323903	1.033867	0.22493	1.447592	0.5
-34	57.58	20.80377	0.223536	3.301441	1.02688	0.229545	1.43781	0.5
-34	57.58	20.73431	0.237617	3.159183	0.982632	0.23349	1.375855	0.4
-34	57.58	20.69958	0.250625	3.039387	0.945371	0.236933	1.323683	0.4
-35	57.58	20.64749	0.27401	2.799795	0.870848	0.238621	1.219338	0.4
-35	57.58	20.5954	0.281057	2.747384	0.854546	0.240176	1.196512	0.4
-35	57.58	20.56067	0.298942	2.590152	0.805641	0.24084	1.128036	0.3
-35	57.58	20.52594	0.315031	2.470356	0.76838	0.242064	1.075864	0.3
-36	57.58	20.47385	0.319979	2.470356	0.768379	0.245865	1.075864	0.3
-36	57.58	20.42176	0.332318	2.522767	0.784681	0.260763	1.09869	0.3
-36	57.58	20.36967	0.388223	2.417945	0.752078	0.291974	1.053039	0.3
-37	57.58	20.31757	0.444112	2.387996	0.742762	0.329869	1.039995	0.2
-37	57.58	20.26548	0.541917	2.260713	0.703172	0.381061	0.984562	0.2
-37	57.58	20.23075	0.640762	2.208302	0.686871	0.440121	0.961737	0.2
-37	57.58	20.17866	0.785365	2.051069	0.637965	0.501035	0.89326	0.1
-38	57.58	20.1092	0.859163	1.976197	0.614676	0.528107	0.860653	0.1
-38	57.58	20.02238	0.889648	1.893837	0.589059	0.524055	0.824784	0.1
-38	57.58	19.9182	0.883313	1.841426	0.572757	0.505924	0.801959	0.1
-38	57.58	19.83138	0.899145	1.744092	0.542482	0.48777	0.759569	0.1
-39	57.58	19.72719	0.879789	1.729117	0.537825	0.473173	0.753047	0.1
-39	57.58	19.64037	0.951867	1.549423	0.481932	0.458736	0.674789	0.1
-39	57.58	19.53618	0.882931	1.624296	0.505221	0.446075	0.707397	0.1
-40	57.58	19.44936	0.901305	1.55691	0.484261	0.436467	0.678049	0.1
-40	57.58	19.36254	0.886351	1.549423	0.481933	0.427162	0.674789	0.1
-40	57.58	19.31045	0.914784	1.444602	0.449329	0.411039	0.629138	0.1
-40	57.58	19.24099	0.86609	1.444602	0.449329	0.389159	0.629138	0.1
-41	57.58	19.17154	0.93066	1.264907	0.393437	0.366156	0.550879	0.1
-41	57.58	19.08471	0.87353	1.279882	0.398094	0.347748	0.557401	0.1
-41	57.58	19.03262	0.838738	1.25742	0.391108	0.328037	0.547619	0.1
-41	57.58	18.96317	0.883416	1.115162	0.34686	0.306422	0.485664	0.1
-42	57.58	18.91107	0.79855	1.152599	0.358504	0.286284	0.501968	0.1
-42	57.58	18.84162	0.781614	1.0927	0.339874	0.26565	0.475881	0.1
-42	57.58	18.78952	0.793026	1.010341	0.314256	0.249213	0.440013	0.1
-43	57.58	18.73743	0.867966	0.87557	0.272337	0.23638	0.381319	0.1
-43	57.58	18.68534	0.867569	0.853108	0.265351	0.23021	0.371537	0.1
-43	57.58	18.65061	0.875636	0.815672	0.253707	0.222155	0.355233	0.1
-43	57.58	18.59852	0.839019	0.823159	0.256035	0.214819	0.358494	0.1
-44	57.58	18.56379	0.849853	0.770749	0.239734	0.203738	0.335668	0.1
-44	57.58	18.5117	0.717879	0.845621	0.263022	0.188818	0.368276	0.1
-44	57.58	18.4596	0.672958	0.845621	0.263022	0.177003	0.368276	0.2
-45	57.58	18.42488	0.608248	0.860596	0.26768	0.162816	0.374798	0.2
-45	57.58	18.37278	0.596234	0.815672	0.253707	0.151268	0.355233	0.2
-45	57.58	18.33805	0.60286	0.755774	0.235076	0.141718	0.329147	0.2
-45	57.58	18.30333	0.605053	0.725825	0.225761	0.136597	0.316104	0.2
-46	57.58	18.2686	0.672915	0.635978	0.197815	0.133112	0.276975	0.2
-46	57.58	18.23387	0.612135	0.673414	0.209459	0.128217	0.293278	0.2
-46	57.58	18.19914	0.589979	0.680901	0.211788	0.12495	0.296539	0.2
-46	57.58	18.14705	0.598121	0.643465	0.200143	0.11971	0.280235	0.2
-47	57.58	18.11232	0.550747	0.665927	0.20713	0.114076	0.290018	0.2
-47	57.58	18.06023	0.642813	0.553618	0.172197	0.110691	0.241106	0.2
-47	57.58	18.0255	0.56065	0.613516	0.190828	0.106988	0.267192	0.2
-48	57.58	17.99077	0.605976	0.546131	0.169869	0.102936	0.237845	0.2
-48	57.58	17.95604	0.582468	0.561105	0.174526	0.101656	0.244367	0.2
-48	57.58	17.92131	0.596569	0.531156	0.165211	0.09856	0.231324	0.2
-48	57.58	17.90395	0.666645	0.463771	0.144251	0.096164	0.201977	0.2
-49	57.58	17.85186	0.581978	0.508695	0.158224	0.092083	0.221541	0.2

-49	57.58	17.81713	0.675403	0.426335	0.132607	0.089563	0.185673	0.2
-49	57.58	17.7824	0.566736	0.486233	0.151238	0.085712	0.211759	0.2
-49	57.58	17.76504	0.550645	0.471258	0.14658	0.080714	0.205238	0.2
-50	57.58	17.73031	0.699074	0.366437	0.113976	0.079678	0.159587	0.1
-50	57.58	17.67822	0.631183	0.388898	0.120963	0.07635	0.169369	0.2
-50	57.58	17.64349	0.596302	0.396386	0.123292	0.073519	0.17263	0.2
-51	57.58	17.59139	0.705814	0.321513	0.100003	0.070584	0.140022	0.1
-51	57.58	17.55667	0.599012	0.358949	0.111648	0.066878	0.156326	0.2
-51	57.58	17.52194	0.542725	0.373924	0.116305	0.063122	0.162847	0.2
-51	57.58	17.48721	0.520862	0.366437	0.113976	0.059366	0.159587	0.2
-52	57.58	17.43512	0.661413	0.27659	0.08603	0.056902	0.120457	0.2
-52	57.58	17.41775	0.595839	0.299051	0.093017	0.055423	0.13024	0.2
-52	57.58	17.40039	0.534329	0.314026	0.097675	0.05219	0.136761	0.2
-53	57.58	17.38302	0.766085	0.209204	0.065071	0.04985	0.09111	0.1
-53	57.58	17.38302	0.589885	0.254128	0.079044	0.046627	0.110675	0.2
-53	57.58	17.36566	0.541143	0.261615	0.081373	0.044034	0.113936	0.2
-53	57.58	17.3483	0.587628	0.239153	0.074386	0.043711	0.104154	0.2
-54	57.58	17.33093	0.53989	0.246641	0.076715	0.041418	0.107414	0.2
-54	57.58	17.31357	0.456232	0.269102	0.083702	0.038187	0.117197	0.2
-54	57.58	17.2962	0.500465	0.231666	0.072057	0.036062	0.100893	0.2
-55	57.58	17.27884	0.650157	0.164281	0.051098	0.033222	0.071546	0.2
-55	57.58	17.26147	0.770509	0.134332	0.041783	0.032194	0.058503	0.1
-55	57.58	17.24411	0.567136	0.179255	0.055756	0.031621	0.078067	0.2
-55	57.58	17.24411	0.568038	0.171768	0.053427	0.030348	0.074807	0.2
-56	57.58	17.24411	0.490482	0.186743	0.058084	0.028489	0.081328	0.2
-56	57.58	17.22675	0.517288	0.164281	0.051098	0.026432	0.071546	0.2
-56	57.58	17.22675	0.986919	0.081921	0.025481	0.025147	0.035677	0.1
-57	57.58	17.22675	0.599231	0.126844	0.039454	0.023642	0.055242	0.2
-57	57.58	17.20938	0.553625	0.126844	0.039454	0.021843	0.055242	0.2
-57	57.58	17.20938	0.585664	0.11187	0.034796	0.020379	0.04872	0.2
-57	57.58	17.20938	0.410445	0.149306	0.04644	0.019061	0.065024	0.2
-58	57.58	17.19202	0.789727	0.074434	0.023152	0.018284	0.032417	0.1
-58	57.58	17.19202	0.925115	0.059459	0.018494	0.017109	0.025895	0.1
-58	57.58	17.17465	0.503661	0.104383	0.032467	0.016352	0.04546	0.2
-59	57.58	17.17465	0.467028	0.104383	0.032467	0.015163	0.04546	0.2
-59	57.58	17.15729	0.562771	0.096895	0.030138	0.016961	0.042199	0.2
-59	57.58	17.15729	0.564072	0.089408	0.02781	0.015687	0.038938	0.2
-60	57.58	17.13993	0.516282	0.089408	0.02781	0.014358	0.038938	0.2
-3	72.24	27.64527	0.203572	760.8546	236.6562	48.17647	47.35572	0.7
-4	72.24	27.64527	0.268699	517.4289	160.9411	43.24463	32.20486	0.5
-4	72.24	27.64527	0.211025	611.349	190.154	40.12733	38.05047	0.7
-4	72.24	27.6279	0.233035	479.0941	149.0174	34.72632	29.8189	0.6
-5	72.24	27.57581	0.199377	528.9293	164.5182	32.80111	32.92065	0.7
-5	72.24	27.55844	0.126372	709.1027	220.5593	27.87259	44.13468	1.1
-5	72.24	27.52372	0.142364	569.1808	177.0379	25.20386	35.42591	1.0
-5	72.24	27.48899	0.136355	565.3474	175.8457	23.97738	35.18732	1.0
-6	72.24	27.47162	0.131981	546.1799	169.8838	22.42142	33.99433	1.1
-6	72.24	27.45426	0.124771	502.095	156.1716	19.48565	31.25048	1.1
-6	72.24	27.41953	0.124651	452.2598	140.6709	17.53482	28.14873	1.1
-6	72.24	27.40217	0.113968	475.2607	147.8251	16.84734	29.58031	1.2
-6	72.24	27.36744	0.118035	427.3422	132.9206	15.68931	26.59785	1.2
-7	72.24	27.36744	0.112762	436.9259	135.9014	15.32457	27.19434	1.3
-7	72.24	27.35007	0.108494	450.343	140.0747	15.19725	28.02943	1.3
-7	72.24	27.35007	0.098233	479.0941	149.0174	14.63843	29.8189	1.4
-7	72.24	27.33271	0.100657	458.01	142.4594	14.33957	28.50662	1.4
-7	72.24	27.31535	0.103421	431.1757	134.1128	13.87011	26.83645	1.4
-7	72.24	27.29798	0.095001	469.5104	146.0365	13.87362	29.22241	1.5
-8	72.24	27.29798	0.09752	463.7602	144.248	14.06701	28.86452	1.5
-8	72.24	27.26325	0.107002	421.592	131.132	14.03137	26.23996	1.3
-8	72.24	27.24589	0.114926	381.8197	118.7612	13.6487	23.76452	1.2
-8	72.24	27.21116	0.104256	416.5605	129.5669	13.50812	25.9268	1.4
-9	72.24	27.1938	0.101972	425.4255	132.3243	13.49333	26.47856	1.4
-9	72.24	27.17643	0.109345	394.2785	122.6364	13.40973	24.53996	1.3
-9	72.24	27.1417	0.105455	407.6956	126.8096	13.37272	25.37505	1.3
-10	72.24	27.08961	0.115637	370.1995	115.1468	13.31527	23.04128	1.2
-10	72.24	27.05488	0.122839	345.0423	107.322	13.18336	21.47549	1.2
-10	72.24	27.00279	0.132267	314.1349	97.70853	12.9236	19.55181	1.1
-11	72.24	26.96806	0.123379	330.7866	102.8879	12.69418	20.58822	1.2
-11	72.24	26.93333	0.112338	364.8087	113.4701	12.74695	22.70576	1.3
-11	72.24	26.89861	0.117312	348.756	108.4771	12.72561	21.70663	1.2
-12	72.24	26.88124	0.141684	279.5138	86.93995	12.31803	17.39699	1.0

-12	72.24	26.86388	0.136586	278.0763	86.49283	11.81371	17.30752	1.0
-12	72.24	26.84651	0.129631	287.5402	89.4365	11.59378	17.89655	1.1
-13	72.24	26.82915	0.124516	293.1706	91.1878	11.35431	18.24699	1.1
-13	72.24	26.81178	0.125145	288.1391	89.62279	11.21581	17.93383	1.1
-13	72.24	26.81178	0.129524	272.925	84.89059	10.99539	16.9869	1.1
-14	72.24	26.79442	0.136492	253.2785	78.77972	10.75283	15.7641	1.0
-14	72.24	26.79442	0.134269	250.8826	78.03454	10.47762	15.61498	1.1
-14	72.24	26.77706	0.131885	245.7313	76.43227	10.08026	15.29436	1.1
-15	72.24	26.77706	0.12486	250.7628	77.99722	9.73874	15.60752	1.1
-15	72.24	26.77706	0.128382	237.705	73.93579	9.492047	14.7948	1.1
-15	72.24	26.75969	0.129055	228.4807	71.06662	9.171524	14.22068	1.1
-16	72.24	26.75969	0.134266	210.5113	65.47743	8.79136	13.10226	1.1
-16	72.24	26.75969	0.131452	205.36	63.87518	8.396533	12.78164	1.1
-16	72.24	26.75969	0.126139	205.8392	64.02425	8.075968	12.81147	1.1
-17	72.24	26.74233	0.115871	217.5792	67.67587	7.841677	13.54217	1.2
-17	72.24	26.74233	0.11193	221.0533	68.75645	7.695916	13.7584	1.3
-17	72.24	26.72496	0.11414	213.027	66.25991	7.562873	13.25884	1.2
-18	72.24	26.72496	0.116009	203.4433	63.27902	7.340954	12.66235	1.2
-18	72.24	26.72496	0.12116	186.3125	57.95063	7.021305	11.59612	1.2
-18	72.24	26.72496	0.119492	181.5206	56.46016	6.746509	11.29787	1.2
-19	72.24	26.7076	0.114834	182.2394	56.68375	6.509199	11.34261	1.2
-19	72.24	26.7076	0.110605	184.2759	57.31717	6.339583	11.46936	1.3
-19	72.24	26.67287	0.11238	176.8486	55.007	6.181687	11.00709	1.3
-19	72.24	26.67287	0.113015	170.9785	53.18115	6.010252	10.64173	1.3
-20	72.24	26.65551	0.110626	167.9836	52.24965	5.78019	10.45533	1.3
-20	72.24	26.63814	0.106949	165.2283	51.39263	5.496401	10.28384	1.3
-20	72.24	26.62078	0.106054	157.801	49.08242	5.205362	9.821562	1.3
-21	72.24	26.60341	0.10203	156.603	48.70981	4.969862	9.746998	1.4
-21	72.24	26.56869	0.100476	154.4467	48.03912	4.826788	9.61279	1.4
-21	72.24	26.55132	0.102333	148.2173	46.10149	4.717695	9.225071	1.4
-22	72.24	26.51659	0.102167	145.9412	45.39355	4.637732	9.083406	1.4
-22	72.24	26.48186	0.103982	140.7899	43.79132	4.553505	8.762788	1.4
-22	72.24	26.44714	0.105678	136.4773	42.44987	4.486	8.494371	1.3
-23	72.24	26.41241	0.106242	133.3626	41.4811	4.407048	8.300511	1.3
-23	72.24	26.34295	0.107587	129.4093	40.25148	4.330524	8.054457	1.3
-23	72.24	26.25613	0.104338	131.4458	40.88492	4.265847	8.18121	1.4
-24	72.24	26.16931	0.105988	128.5707	39.99063	4.238511	8.002263	1.3
-24	72.24	26.06512	0.107937	125.456	39.02185	4.211902	7.808403	1.3
-24	72.24	25.9783	0.108377	124.4977	38.72376	4.196769	7.748759	1.3
-25	72.24	25.90885	0.110502	121.8621	37.90401	4.188481	7.584718	1.3
-25	72.24	25.82202	0.114076	117.4297	36.52533	4.166667	7.308845	1.2
-25	72.24	25.7352	0.116987	114.0754	35.48202	4.150935	7.100073	1.2
-26	72.24	25.61365	0.119911	110.4815	34.36416	4.120654	6.876388	1.2
-26	72.24	25.45738	0.120851	109.044	33.91703	4.09889	6.786918	1.2
-26	72.24	25.3011	0.12262	107.247	33.35812	4.09036	6.675072	1.2
-27	72.24	25.12746	0.12501	104.7313	32.57563	4.072289	6.518494	1.1
-27	72.24	24.95381	0.127934	101.4968	31.56957	4.038818	6.317179	1.1
-27	72.24	24.69335	0.129594	99.22068	30.86161	3.999488	6.175512	1.1
-28	72.24	24.36343	0.132179	96.34557	29.96733	3.961045	5.996565	1.1
-28	72.24	23.99878	0.134996	93.35068	29.0358	3.919709	5.810163	1.1
-28	72.24	23.6515	0.138211	90.83495	28.25329	3.904908	5.653583	1.0
-29	72.24	23.33894	0.141617	88.31924	27.47082	3.890344	5.497005	1.0
-29	72.24	23.00902	0.145246	86.04311	26.76285	3.887202	5.355338	1.0
-29	72.24	22.69647	0.150264	83.76698	26.05488	3.915121	5.213671	0.9
-29	72.24	22.41864	0.156861	80.89188	25.16061	3.946717	5.034725	0.9
-30	72.24	22.14081	0.163685	78.13657	24.30359	3.978141	4.863234	0.9
-30	72.24	21.91508	0.172678	74.78228	23.26028	4.016548	4.654462	0.8
-30	72.24	21.68934	0.177053	73.9437	22.99944	4.072118	4.602269	0.8
-31	72.24	21.49834	0.184675	72.02697	22.40327	4.13732	4.482971	0.8
-31	72.24	21.30733	0.192415	70.23003	21.84435	4.203174	4.371129	0.7
-31	72.24	21.11633	0.202372	67.35492	20.95008	4.239717	4.192182	0.7
-32	72.24	20.92532	0.213435	64.00063	19.90675	4.248791	3.98341	0.7
-32	72.24	20.76904	0.23158	58.7296	18.26726	4.230324	3.655341	0.6
-32	72.24	20.63013	0.256331	52.62	16.36693	4.19535	3.275078	0.6
-33	72.24	20.50858	0.273118	49.02612	15.24909	4.164794	3.051394	0.5
-33	72.24	20.40439	0.27925	47.82816	14.87647	4.154255	2.976833	0.5
-33	72.24	20.31757	0.298895	44.71346	13.90767	4.156934	2.782974	0.5
-33	72.24	20.23075	0.318442	41.83835	13.0134	4.144012	2.604026	0.4
-34	72.24	20.14393	0.325496	40.52059	12.60353	4.102401	2.522009	0.4
-34	72.24	20.00502	0.329678	39.44243	12.26817	4.044548	2.454904	0.4
-34	72.24	19.8661	0.331187	38.48406	11.97008	3.964332	2.395255	0.4

-34	72.24	19.72719	0.328569	38.00488	11.82104	3.884024	2.36543	0.4
-35	72.24	19.60564	0.328018	37.52569	11.67199	3.828625	2.335605	0.4
-35	72.24	19.50146	0.324075	37.4059	11.63473	3.770521	2.32815	0.4
-35	72.24	19.39727	0.326031	36.68712	11.41116	3.720393	2.283413	0.4
-35	72.24	19.31045	0.332196	35.72875	11.11307	3.691713	2.223764	0.4
-36	72.24	19.24099	0.34211	34.89017	10.85224	3.712663	2.17157	0.4
-36	72.24	19.17154	0.356128	34.29119	10.66593	3.798441	2.13429	0.4
-36	72.24	19.11944	0.378415	33.57242	10.44237	3.951549	2.089553	0.4
-37	72.24	19.04999	0.412445	32.73384	10.18154	4.199325	2.03736	0.3
-37	72.24	18.98053	0.462533	32.01507	9.957964	4.605889	1.992624	0.3
-37	72.24	18.89371	0.537662	31.1765	9.697137	5.213782	1.940431	0.3
-37	72.24	18.80689	0.63901	30.21813	9.399044	6.006079	1.880782	0.2
-38	72.24	18.72007	0.775079	29.25976	9.100958	7.05396	1.821133	0.2
-38	72.24	18.63325	0.980546	28.0618	8.728342	8.558542	1.746571	0.1
-38	72.24	18.54642	1.243243	26.62424	8.281201	10.29554	1.657097	0.1
-39	72.24	18.4596	1.466681	25.18669	7.834067	11.49008	1.567624	0.1
-39	72.24	18.35542	1.644146	23.24001	7.228573	11.88483	1.446462	0.1
-39	72.24	18.25123	1.727626	21.72758	6.758148	11.67555	1.352328	0.1
-39	72.24	18.16441	1.772655	20.35741	6.331972	11.2244	1.267049	0.1
-40	72.24	18.09496	1.783424	19.18191	5.96634	10.64051	1.193885	0.1
-40	72.24	18.0255	1.804483	17.85667	5.554138	10.02235	1.111402	0.1
-40	72.24	17.95604	1.804725	16.76353	5.21413	9.41007	1.043365	0.1
-41	72.24	17.88659	1.80159	15.79018	4.911378	8.848289	0.982784	0.1
-41	72.24	17.83449	1.794486	14.87674	4.62726	8.303554	0.925931	0.1
-41	72.24	17.7824	1.739891	14.3152	4.452598	7.747034	0.890981	0.1
-42	72.24	17.73031	1.679225	13.79109	4.289579	7.203168	0.85836	0.1
-42	72.24	17.69558	1.644638	13.10226	4.075326	6.702437	0.815487	0.1
-42	72.24	17.64349	1.571516	12.77282	3.972859	6.243411	0.794983	0.1
-42	72.24	17.59139	1.521035	12.3161	3.8308	5.826781	0.766556	0.1
-43	72.24	17.55667	1.491017	11.79199	3.66778	5.468723	0.733936	0.1
-43	72.24	17.50457	1.489353	11.17055	3.474487	5.174738	0.695257	0.1
-43	72.24	17.46984	1.506904	10.49669	3.264892	4.91988	0.653316	0.1
-43	72.24	17.43512	1.595332	9.433504	2.934197	4.681018	0.587143	0.1
-44	72.24	17.40039	1.604086	8.894422	2.766521	4.437737	0.55359	0.1
-44	72.24	17.36566	1.569965	8.57247	2.66638	4.186124	0.533552	0.1
-44	72.24	17.3483	1.51323	8.317903	2.587201	3.91503	0.517708	0.1
-45	72.24	17.31357	1.420672	8.250518	2.566242	3.645788	0.513514	0.1
-45	72.24	17.2962	1.347257	8.0259	2.496376	3.36326	0.499533	0.1
-45	72.24	17.27884	1.283819	7.756359	2.412537	3.097261	0.482757	0.1
-46	72.24	17.26147	1.219128	7.554203	2.349659	2.864535	0.470175	0.1
-46	72.24	17.22675	1.176128	7.247225	2.254177	2.651201	0.451069	0.1
-46	72.24	17.19202	1.114311	7.067531	2.198284	2.449572	0.439884	0.1
-46	72.24	17.17465	1.075824	6.753067	2.100475	2.259741	0.420312	0.1
-47	72.24	17.17465	1.022583	6.573372	2.044582	2.090755	0.409128	0.1
-47	72.24	17.13993	0.998425	6.213984	1.932798	1.929754	0.386759	0.1
-47	72.24	17.12256	0.978014	5.929468	1.844302	1.803752	0.369051	0.1
-48	72.24	17.1052	1.000243	5.480233	1.704571	1.704986	0.341091	0.1
-48	72.24	17.07047	0.992174	5.27059	1.639364	1.626535	0.328042	0.1
-48	72.24	17.0531	1.001411	4.986074	1.550868	1.553056	0.310334	0.1
-48	72.24	17.03574	0.99763	4.694071	1.460044	1.456583	0.29216	0.1
-49	72.24	17.01838	0.961139	4.551813	1.415796	1.360776	0.283306	0.1
-49	72.24	17.01838	0.930447	4.34217	1.350588	1.256651	0.270257	0.2
-49	72.24	17.00101	0.925671	4.012731	1.24812	1.155348	0.249753	0.2
-50	72.24	16.98365	0.883514	3.862985	1.201543	1.06158	0.240433	0.2
-50	72.24	16.96628	0.879045	3.593444	1.117705	0.982513	0.223657	0.2
-50	72.24	16.94892	0.8767	3.353852	1.043182	0.914557	0.208744	0.2
-51	72.24	16.93155	0.848306	3.24903	1.010578	0.85728	0.20222	0.2
-51	72.24	16.93155	0.844866	3.054362	0.950028	0.802647	0.190104	0.2
-51	72.24	16.91419	0.830805	2.897129	0.901123	0.748658	0.180318	0.2
-51	72.24	16.91419	0.806515	2.762359	0.859204	0.69296	0.17193	0.2
-52	72.24	16.89683	0.781262	2.642563	0.821943	0.642153	0.164474	0.2
-52	72.24	16.89683	0.758173	2.537741	0.789339	0.598455	0.157949	0.2
-52	72.24	16.89683	0.730053	2.447894	0.761393	0.555857	0.152357	0.2
-53	72.24	16.89683	0.682501	2.40297	0.74742	0.510115	0.149561	0.2
-53	72.24	16.89683	0.649686	2.313123	0.719474	0.467432	0.143969	0.2
-53	72.24	16.89683	0.618801	2.230763	0.693857	0.429359	0.138843	0.2
-53	72.24	16.89683	0.605099	2.095993	0.651938	0.394487	0.130455	0.2
-54	72.24	16.89683	0.600113	1.953735	0.60769	0.364682	0.121601	0.2
-54	72.24	16.89683	0.574866	1.893837	0.589059	0.33863	0.117873	0.2
-54	72.24	16.89683	0.538879	1.878862	0.584401	0.314921	0.116941	0.3
-55	72.24	16.89683	0.532245	1.774041	0.551798	0.293691	0.110417	0.3

-55	72.24	16.87946	0.548386	1.616808	0.502892	0.275779	0.10063	0.3
-55	72.24	16.87946	0.551109	1.541936	0.479604	0.264314	0.09597	0.3
-55	72.24	16.8621	0.547416	1.489525	0.463302	0.253619	0.092708	0.3
-56	72.24	16.84473	0.565511	1.377216	0.428369	0.242247	0.085718	0.3
-56	72.24	16.82737	0.564445	1.317318	0.409739	0.231275	0.08199	0.3
-56	72.24	16.82737	0.541061	1.294856	0.402752	0.217913	0.080592	0.3
-57	72.24	16.82737	0.516323	1.272395	0.395766	0.204343	0.079194	0.3
-57	72.24	16.81001	0.515757	1.182548	0.36782	0.189706	0.073602	0.3
-57	72.24	16.79264	0.476597	1.167573	0.363162	0.173082	0.07267	0.3
-58	72.24	16.79264	0.450566	1.130137	0.351518	0.158382	0.07034	0.3
-58	72.24	16.77528	0.421895	1.100188	0.342202	0.144374	0.068476	0.3
-58	72.24	16.77528	0.45325	0.942955	0.293297	0.132937	0.05869	0.3
-58	72.24	16.77528	0.411629	0.95793	0.297955	0.122647	0.059622	0.3
-59	72.24	16.77528	0.421935	0.87557	0.272337	0.114909	0.054496	0.3
-59	72.24	16.75791	0.481125	0.725825	0.225761	0.108619	0.045175	0.3
-59	72.24	16.75791	0.470431	0.718338	0.223432	0.105109	0.044709	0.3
-60	72.24	16.74055	0.455074	0.71085	0.221103	0.100618	0.044243	0.3
-60	72.24	16.74055	0.466387	0.65844	0.204801	0.095516	0.040981	0.3
-60	72.24	16.74055	0.420731	0.688389	0.214116	0.090085	0.042845	0.3
-60	72.24	16.72318	0.406193	0.65844	0.204801	0.083189	0.040981	0.4
-61	72.24	16.72318	0.419787	0.591054	0.183842	0.077174	0.036787	0.3
-61	72.24	16.72318	0.453144	0.516182	0.160553	0.072754	0.032127	0.3
-61	72.24	16.72318	0.411911	0.523669	0.162882	0.067093	0.032593	0.3
-62	72.24	16.70582	0.386647	0.523669	0.162882	0.062978	0.032593	0.4
-62	72.24	16.70582	0.365795	0.523669	0.162882	0.059581	0.032593	0.4
-62	72.24	16.70582	0.388077	0.471258	0.14658	0.056884	0.029331	0.4
-62	72.24	16.70582	0.379328	0.456284	0.141922	0.053835	0.028399	0.4
-63	72.24	16.68846	0.371029	0.448797	0.139594	0.051793	0.027933	0.4
-63	72.24	16.68846	0.355226	0.441309	0.137265	0.04876	0.027467	0.4
-63	72.24	16.68846	0.36614	0.41136	0.12795	0.046847	0.025603	0.4
-63	72.24	16.68846	0.437718	0.336488	0.104661	0.045812	0.020943	0.3
-64	72.24	16.68846	0.460604	0.314026	0.097675	0.044989	0.019545	0.3
-64	72.24	16.68846	0.458443	0.306539	0.095346	0.043711	0.019079	0.3
-64	72.24	16.68846	0.471777	0.291564	0.090688	0.042785	0.018147	0.3
-64	72.24	16.68846	0.489908	0.269102	0.083702	0.041006	0.016749	0.3
-65	72.24	16.68846	0.46388	0.27659	0.08603	0.039908	0.017215	0.3
-65	72.24	16.70582	0.496029	0.246641	0.076715	0.038053	0.015351	0.3
-65	72.24	16.70582	0.474285	0.239153	0.074386	0.03528	0.014885	0.3
-65	72.24	16.70582	0.467127	0.224179	0.069729	0.032572	0.013953	0.3
-66	72.24	16.70582	0.52966	0.179255	0.055756	0.029531	0.011157	0.3
-66	72.24	16.68846	0.548105	0.156793	0.048769	0.026731	0.009759	0.3
-66	72.24	16.68846	0.648102	0.119357	0.037125	0.024061	0.007429	0.2
-67	72.24	16.68846	0.661898	0.11187	0.034796	0.023031	0.006963	0.2
-67	72.24	16.67109	0.690779	0.096895	0.030138	0.020819	0.006031	0.2
-67	72.24	16.67109	0.741157	0.081921	0.025481	0.018885	0.005099	0.2
-67	72.24	16.67109	0.624621	0.089408	0.02781	0.01737	0.005565	0.2
-68	72.24	16.67109	0.676727	0.081921	0.025481	0.017243	0.005099	0.2
-68	72.24	16.67109	0.526342	0.096895	0.030138	0.015863	0.006031	0.3
-68	72.24	16.67109	0.416585	0.11187	0.034796	0.014495	0.006963	0.3
-68	72.24	16.65373	0.305722	0.134332	0.041783	0.012774	0.008361	0.5
-69	72.24	16.67109	0.250764	0.141819	0.044111	0.011062	0.008827	0.6
-69	72.24	16.65373	0.239088	0.134332	0.041783	0.00999	0.008361	0.6
-69	72.24	16.65373	0.282309	0.096895	0.030138	0.008508	0.006031	0.5
-69	72.24	16.65373	0.202533	0.134332	0.041783	0.008462	0.008361	0.7
-70	72.24	16.65373	0.218796	0.126844	0.039454	0.008632	0.007895	0.7
-70	72.24	16.65373	0.348211	0.089408	0.02781	0.009684	0.005565	0.4
-70	72.24	16.65373	0.785401	0.036997	0.011508	0.009038	0.002303	0.2
-70	72.24	16.65373	0.577778	0.051972	0.016165	0.00934	0.003235	0.2
-71	72.24	16.65373	0.417829	0.066946	0.020823	0.0087	0.004167	0.3
-71	72.24	16.63636	0.241295	0.104383	0.032467	0.007834	0.006497	0.6
-71	72.24	16.63636	0.231846	0.089408	0.02781	0.006448	0.005565	0.6
-71	72.24	16.63636	0.209799	0.096895	0.030138	0.006323	0.006031	0.7
-3	77.26	27.31535	0.126587	94.18925	29.29662	3.708574	5.876325	1.0
-4	77.26	27.33271	0.121905	95.26741	29.63199	3.612273	5.94359	1.0
-4	77.26	27.31535	0.120112	94.06945	29.25936	3.514394	5.868851	1.0
-4	77.26	27.31535	0.121132	90.35577	28.10426	3.404317	5.63716	1.0
-5	77.26	27.31535	0.121445	87.72026	27.28451	3.313554	5.472735	1.0
-5	77.26	27.29798	0.121456	85.92332	26.72558	3.245972	5.360626	1.0
-5	77.26	27.26325	0.122841	84.36597	26.2412	3.223495	5.263465	1.0
-6	77.26	27.21116	0.122747	83.2878	25.90585	3.179857	5.1962	1.0
-6	77.26	27.1417	0.123917	81.01167	25.19788	3.122455	5.054196	1.0

-7	77.26	27.07225	0.148938	79.69392	24.788	3.691881	4.971983	0.8
-7	77.26	27.02015	0.150987	77.89698	24.22908	3.658286	4.859875	0.8
-7	77.26	26.98543	0.14901	78.49596	24.41539	3.638129	4.897244	0.8
-8	77.26	26.93333	0.144276	81.37106	25.30965	3.651567	5.076618	0.8
-8	77.26	26.91597	0.140094	84.72536	26.35298	3.691881	5.285887	0.9
-8	77.26	26.86388	0.139203	86.04311	26.76286	3.725475	5.3681	0.9
-8	77.26	26.84651	0.139874	86.4025	26.87465	3.75907	5.390521	0.9
-9	77.26	26.81178	0.137547	89.27761	27.76891	3.819539	5.569895	0.9
-9	77.26	26.79442	0.133756	94.06945	29.25936	3.913603	5.868851	0.9
-9	77.26	26.77706	0.132815	97.66334	30.37721	4.034543	6.093068	0.9
-10	77.26	26.77706	0.130778	101.4968	31.56957	4.128608	6.332232	0.9
-10	77.26	26.75969	0.129933	103.6531	32.24027	4.189078	6.46676	0.9
-10	77.26	26.77706	0.128538	105.4501	32.7992	4.215953	6.578872	0.9
-11	77.26	26.75969	0.127237	106.5282	33.13454	4.215953	6.646134	1.0
-11	77.26	26.74233	0.128156	105.0907	32.68741	4.189078	6.55645	0.9
-11	77.26	26.74233	0.132297	100.6582	31.30873	4.142045	6.279913	0.9
-12	77.26	26.72496	0.137332	95.86639	29.81828	4.095014	5.980959	0.9
-12	77.26	26.72496	0.140911	92.5121	28.77496	4.0547	5.77169	0.9
-12	77.26	26.7076	0.144612	89.3974	27.80617	4.021106	5.577369	0.8
-12	77.26	26.7076	0.14491	88.31924	27.47081	3.980792	5.510104	0.8
-13	77.26	26.69023	0.146266	86.76189	26.98642	3.947198	5.412943	0.8
-13	77.26	26.69023	0.14472	87.24107	27.13546	3.927042	5.442839	0.8
-13	77.26	26.69023	0.137778	91.79333	28.5514	3.93376	5.726847	0.9
-14	77.26	26.69023	0.131887	98.02272	30.48898	4.021106	6.115489	0.9
-14	77.26	26.67287	0.127443	104.4917	32.50111	4.142045	6.519079	1.0
-14	77.26	26.67287	0.125353	109.1638	33.9543	4.256267	6.810565	1.0
-14	77.26	26.67287	0.11996	116.2317	36.15269	4.336891	7.25152	1.0
-15	77.26	26.67287	0.111368	128.6905	40.02792	4.457834	8.028806	1.1
-15	77.26	26.67287	0.104146	140.3107	43.64226	4.54518	8.753773	1.2
-15	77.26	26.67287	0.101619	144.863	45.05819	4.578772	9.037784	1.2
-16	77.26	26.67287	0.098906	149.0559	46.36232	4.58549	9.299373	1.2
-16	77.26	26.65551	0.081517	154.2071	47.96457	3.909926	9.620748	1.5
-16	77.26	26.65551	0.094356	144.5036	44.94641	4.240958	9.015361	1.3
-16	77.26	26.65551	0.118691	125.456	39.02184	4.631541	7.82701	1.0
-17	77.26	26.65551	0.147709	110.6013	34.40143	5.081404	6.900248	0.8
-17	77.26	26.65551	0.151688	115.9921	36.07819	5.472632	7.236572	0.8
-17	77.26	26.65551	0.150651	120.0652	37.34508	5.626066	7.490687	0.8
-17	77.26	26.65551	0.152005	118.7475	36.93519	5.614315	7.408477	0.8
-18	77.26	26.63814	0.156683	111.6795	34.73678	5.44266	6.967515	0.8
-18	77.26	26.63814	0.157988	105.9293	32.94825	5.205414	6.608769	0.8
-18	77.26	26.63814	0.165067	96.34557	29.96732	4.946607	6.010855	0.7
-18	77.26	26.63814	0.161544	92.27251	28.70045	4.636371	5.756743	0.8
-19	77.26	26.63814	0.157414	90.47557	28.14151	4.429862	5.644634	0.8
-19	77.26	26.63814	0.158267	88.79842	27.61988	4.371326	5.539999	0.8
-19	77.26	26.62078	0.157826	90.23598	28.06701	4.429693	5.629687	0.8
-20	77.26	26.62078	0.157121	90.83495	28.2533	4.439184	5.667055	0.8
-20	77.26	26.60341	0.14882	93.47047	29.07307	4.326657	5.831481	0.8
-20	77.26	26.56869	0.138266	97.18415	30.22816	4.179514	6.063172	0.9
-20	77.26	26.53396	0.131899	98.98109	30.78709	4.060786	6.175281	0.9
-21	77.26	26.48186	0.128394	99.22068	30.8616	3.962432	6.190228	0.9
-21	77.26	26.44714	0.129314	96.82476	30.11637	3.894465	6.040751	0.9
-21	77.26	26.41241	0.13253	93.35068	29.03579	3.848113	5.824008	0.9
-22	77.26	26.36031	0.146164	85.44413	26.57655	3.884529	5.33073	0.8
-22	77.26	26.32559	0.180197	71.18839	22.14244	3.990003	4.441336	0.7
-22	77.26	26.29086	0.212781	62.08389	19.31057	4.108917	3.87332	0.6
-22	77.26	26.27349	0.202531	67.35492	20.95007	4.243031	4.202172	0.6
-23	77.26	26.23877	0.172371	80.89188	25.16059	4.336952	5.046722	0.7
-23	77.26	26.20404	0.158191	87.60046	27.24726	4.310266	5.46526	0.8
-23	77.26	26.18667	0.158312	84.72536	26.35298	4.172001	5.285887	0.8
-23	77.26	26.15194	0.146115	88.43903	27.50807	4.019353	5.517578	0.8
-24	77.26	26.11722	0.141544	87.84006	27.32178	3.867226	5.480209	0.9
-24	77.26	26.06512	0.14633	82.44923	25.64501	3.752638	5.143883	0.8
-24	77.26	26.0304	0.169141	70.46962	21.91888	3.707372	4.396493	0.7
-24	77.26	25.96094	0.17904	67.83411	21.09912	3.777575	4.232068	0.7
-25	77.26	25.90885	0.180165	70.11023	21.80709	3.92887	4.374071	0.7
-25	77.26	25.82202	0.196477	65.67777	20.42842	4.013714	4.097537	0.6
-25	77.26	25.70048	0.214589	59.32858	18.45356	3.959934	3.701421	0.6
-25	77.26	25.50947	0.200847	61.7245	19.19879	3.856012	3.850898	0.6
-26	77.26	25.28373	0.182275	66.27676	20.61472	3.757546	4.134907	0.7
-26	77.26	25.058	0.17272	67.83411	21.09913	3.644245	4.232068	0.7
-26	77.26	24.84963	0.169231	67.23512	20.91282	3.539106	4.194698	0.7

-27	77.26	24.69335	0.172076	64.8392	20.16759	3.470351	4.04522	0.7
-27	77.26	24.53707	0.191262	58.60981	18.23	3.486696	3.656578	0.6
-27	77.26	24.41552	0.219944	51.90122	16.14336	3.550636	3.238039	0.6
-27	77.26	24.31134	0.227549	50.58347	15.73348	3.580135	3.155826	0.5
-27	77.26	24.20715	0.218433	52.5002	16.32967	3.566933	3.275408	0.6
-28	77.26	24.10297	0.208394	54.77633	17.03763	3.550541	3.417413	0.6
-28	77.26	23.99878	0.204945	55.37531	17.22393	3.529954	3.454782	0.6
-28	77.26	23.91196	0.201565	55.13572	17.14942	3.456721	3.439834	0.6
-29	77.26	23.84251	0.204051	52.62	16.36693	3.339686	3.282882	0.6
-29	77.26	23.79041	0.209285	49.14591	15.28635	3.199205	3.066139	0.6
-29	77.26	23.68623	0.213541	46.3906	14.42933	3.081258	2.894239	0.6
-29	77.26	23.54731	0.212668	45.43223	14.13124	3.005258	2.834448	0.6
-30	77.26	23.32158	0.212683	44.95305	13.9822	2.973772	2.804553	0.6
-30	77.26	23.11321	0.204208	46.5104	14.4666	2.954188	2.901714	0.6
-30	77.26	22.87011	0.195777	48.30734	15.02551	2.941655	3.013822	0.6
-30	77.26	22.62701	0.196106	48.18754	14.98825	2.939292	3.006348	0.6
-31	77.26	22.41864	0.201161	47.34897	14.72743	2.962577	2.954031	0.6
-31	77.26	22.21027	0.213041	46.03121	14.31755	3.050228	2.871818	0.6
-31	77.26	22.05399	0.225081	44.95305	13.9822	3.147124	2.804553	0.5
-32	77.26	21.93244	0.235633	43.63529	13.57232	3.198091	2.72234	0.5
-32	77.26	21.81089	0.241757	42.43733	13.19971	3.191118	2.647601	0.5
-32	77.26	21.68934	0.246209	41.35917	12.86435	3.167316	2.580336	0.5
-32	77.26	21.58516	0.252069	40.04141	12.45448	3.139383	2.498123	0.5
-33	77.26	21.48097	0.258006	38.36426	11.93282	3.078735	2.393488	0.5
-33	77.26	21.35942	0.270316	35.48915	11.03855	2.983891	2.214114	0.4
-33	77.26	21.2726	0.287083	32.61405	10.14427	2.912248	2.034741	0.4
-33	77.26	21.18578	0.318723	29.02017	9.026434	2.876928	1.810525	0.4
-34	77.26	21.0295	0.403981	23.0678	7.175009	2.898569	1.439165	0.3
-34	77.26	20.82113	0.443082	21.41311	6.660335	2.951076	1.335932	0.3
-34	77.26	20.63013	0.383494	24.72997	7.692009	2.949836	1.542865	0.3
-35	77.26	20.43912	0.314633	29.22981	9.091641	2.860534	1.823604	0.4
-35	77.26	20.26548	0.289094	30.10582	9.364114	2.707113	1.878257	0.4
-35	77.26	20.09184	0.286756	28.59339	8.893688	2.550317	1.783898	0.4
-36	77.26	19.9182	0.278308	28.03185	8.719026	2.426574	1.748865	0.4
-36	77.26	19.76192	0.272702	27.64251	8.597928	2.344671	1.724574	0.4
-36	77.26	19.623	0.280708	26.29481	8.178736	2.29584	1.640493	0.4
-36	77.26	19.51882	0.297609	24.56525	7.640777	2.273965	1.532589	0.4
-37	77.26	19.41463	0.314336	23.56944	7.331041	2.30441	1.470462	0.4
-37	77.26	19.31045	0.332468	22.84318	7.105143	2.362236	1.425152	0.4
-37	77.26	19.22363	0.344486	22.46882	6.988703	2.407511	1.401796	0.4
-38	77.26	19.15417	0.354307	22.31158	6.939796	2.458819	1.391986	0.3
-38	77.26	19.08471	0.377755	22.10943	6.876917	2.597793	1.379374	0.3
-38	77.26	19.01526	0.430703	21.59281	6.716227	2.892702	1.347143	0.3
-38	77.26	18.9458	0.517591	20.88901	6.497316	3.362951	1.303234	0.2
-39	77.26	18.84162	0.643664	19.98305	6.215528	4.000714	1.246712	0.2
-39	77.26	18.72007	0.789963	19.36161	6.022234	4.75734	1.207942	0.2
-39	77.26	18.61588	0.950191	18.86745	5.868531	5.576226	1.177112	0.1
-40	77.26	18.49433	1.142504	17.96149	5.586744	6.382878	1.12059	0.1
-40	77.26	18.40751	1.351586	16.92825	5.265363	7.116591	1.056128	0.1
-40	77.26	18.35542	1.532834	15.93244	4.955627	7.596154	0.994001	0.1
-41	77.26	18.30333	1.65891	15.04895	4.680824	7.765066	0.938881	0.1
-41	77.26	18.23387	1.753172	14.18042	4.410682	7.732683	0.884695	0.1
-41	77.26	18.18178	1.826316	13.30442	4.138206	7.557672	0.830043	0.1
-41	77.26	18.12968	1.888065	12.45087	3.872719	7.311946	0.776791	0.1
-42	77.26	18.07759	1.929515	11.73209	3.64915	7.04109	0.731947	0.1
-42	77.26	18.0255	1.948862	11.0807	3.446542	6.716835	0.691308	0.1
-42	77.26	17.95604	1.954033	10.47423	3.257906	6.366056	0.653471	0.1
-43	77.26	17.90395	1.931153	9.987561	3.106532	5.999188	0.623109	0.1
-43	77.26	17.85186	1.895656	9.560787	2.973786	5.637276	0.596483	0.1
-43	77.26	17.81713	1.851887	9.163963	2.850359	5.278543	0.571726	0.1
-43	77.26	17.76504	1.808367	8.767138	2.726932	4.931293	0.546969	0.1
-44	77.26	17.71294	1.809446	8.190619	2.547611	4.609764	0.511	0.1
-44	77.26	17.66085	1.792494	7.72641	2.403222	4.307761	0.482039	0.1
-44	77.26	17.62612	1.743997	7.411945	2.305412	4.020631	0.46242	0.1
-45	77.26	17.59139	1.711083	7.007633	2.179654	3.729569	0.437196	0.1
-45	77.26	17.5393	1.683342	6.700655	2.084171	3.508373	0.418044	0.1
-45	77.26	17.48721	1.68941	6.318806	1.965402	3.320369	0.394221	0.1
-45	77.26	17.45248	1.670346	6.079213	1.890878	3.158421	0.379273	0.1
-46	77.26	17.40039	1.64023	5.847108	1.818684	2.98306	0.364792	0.1
-46	77.26	17.3483	1.588371	5.674901	1.765122	2.803668	0.354049	0.1
-46	77.26	17.31357	1.586938	5.278077	1.641693	2.605265	0.329291	0.1

-46	77.26	17.27884	1.552508	5.001049	1.555526	2.414966	0.312008	0.1
-47	77.26	17.24411	1.511308	4.753969	1.478674	2.234732	0.296593	0.1
-47	77.26	17.20938	1.482827	4.469453	1.390179	2.061394	0.278842	0.1
-47	77.26	17.17465	1.377058	4.42453	1.376205	1.895114	0.27604	0.1
-48	77.26	17.17465	1.290382	4.34217	1.350589	1.742775	0.270901	0.1
-48	77.26	17.15729	1.1765	4.372119	1.359904	1.599927	0.27277	0.1
-48	77.26	17.12256	1.079019	4.297246	1.336616	1.442234	0.268099	0.1
-49	77.26	17.1052	1.032004	4.09509	1.273737	1.314502	0.255486	0.1
-49	77.26	17.08783	1.021891	3.803087	1.182913	1.208808	0.237269	0.1
-49	77.26	17.0531	1.036256	3.526059	1.096745	1.136509	0.219985	0.1
-49	77.26	17.03574	1.083452	3.234056	1.005921	1.089867	0.201768	0.1
-50	77.26	17.01838	1.098702	3.076823	0.957015	1.051475	0.191958	0.1
-50	77.26	17.00101	1.112436	2.927078	0.910439	1.012805	0.182616	0.1
-50	77.26	16.98365	1.098057	2.822257	0.877835	0.963913	0.176076	0.1
-51	77.26	16.96628	1.073848	2.709948	0.842902	0.905149	0.16907	0.1
-51	77.26	16.94892	1.041104	2.590152	0.805641	0.838756	0.161596	0.1
-51	77.26	16.94892	0.999883	2.470356	0.76838	0.76829	0.154122	0.1
-52	77.26	16.93155	0.930476	2.417945	0.752078	0.69979	0.150852	0.1
-52	77.26	16.91419	0.893866	2.298149	0.714816	0.63895	0.143378	0.1
-52	77.26	16.89683	0.872068	2.155891	0.670568	0.584782	0.134503	0.1
-52	77.26	16.87946	0.896442	1.938761	0.603032	0.540583	0.120956	0.1
-53	77.26	16.87946	0.885249	1.833939	0.570428	0.504971	0.114417	0.1
-53	77.26	16.8621	0.874414	1.744092	0.542482	0.474354	0.108811	0.1
-53	77.26	16.8621	0.853603	1.676707	0.521523	0.445173	0.104607	0.1
-54	77.26	16.84473	0.849575	1.586859	0.493577	0.419331	0.099002	0.1
-54	77.26	16.84473	0.843194	1.489525	0.463302	0.390653	0.092929	0.1
-54	77.26	16.82737	0.785762	1.489525	0.463302	0.364045	0.092929	0.2
-54	77.26	16.82737	0.754938	1.444602	0.449329	0.339216	0.090127	0.2
-55	77.26	16.82737	0.743512	1.354754	0.421383	0.313303	0.084521	0.2
-55	77.26	16.82737	0.700044	1.332293	0.414396	0.290096	0.08312	0.2
-55	77.26	16.82737	0.676096	1.294856	0.402752	0.272299	0.080784	0.2
-56	77.26	16.82737	0.685562	1.197522	0.372477	0.255356	0.074712	0.2
-56	77.26	16.82737	0.653965	1.182548	0.36782	0.240541	0.073777	0.2
-56	77.26	16.82737	0.627962	1.167573	0.363162	0.228052	0.072843	0.2
-56	77.26	16.82737	0.668341	1.04029	0.323572	0.216256	0.064902	0.2
-57	77.26	16.81001	0.611131	1.085213	0.337545	0.206284	0.067705	0.2
-57	77.26	16.81001	0.598612	1.047777	0.325901	0.195088	0.065369	0.2
-57	77.26	16.81001	0.641321	0.927981	0.288639	0.18511	0.057895	0.2
-58	77.26	16.81001	0.600978	0.950443	0.295626	0.177665	0.059297	0.2
-58	77.26	16.81001	0.584485	0.927981	0.288639	0.168705	0.057895	0.2
-58	77.26	16.79264	0.626107	0.823159	0.256035	0.160306	0.051356	0.2
-59	77.26	16.79264	0.607576	0.815672	0.253707	0.154146	0.050889	0.2
-59	77.26	16.79264	0.604891	0.778236	0.242062	0.146421	0.048553	0.2
-59	77.26	16.79264	0.636908	0.688389	0.214116	0.136372	0.042948	0.2
-60	77.26	16.77528	0.620557	0.665927	0.20713	0.128536	0.041546	0.2
-60	77.26	16.77528	0.622001	0.621003	0.193157	0.120144	0.038743	0.2
-60	77.26	16.77528	0.58569	0.621003	0.193157	0.11313	0.038743	0.2
-60	77.26	16.77528	0.597549	0.568593	0.176855	0.10568	0.035474	0.2
-61	77.26	16.77528	0.615545	0.531156	0.165211	0.101695	0.033138	0.2
-61	77.26	16.77528	0.589779	0.523669	0.162882	0.096064	0.032671	0.2
-61	77.26	16.77528	0.596241	0.49372	0.153567	0.091563	0.030802	0.2
-61	77.26	16.77528	0.64744	0.426335	0.132607	0.085855	0.026598	0.2
-62	77.26	16.77528	0.60277	0.418847	0.130278	0.078528	0.026131	0.2
-62	77.26	16.75791	0.513823	0.448797	0.139594	0.071726	0.028	0.2
-62	77.26	16.75791	0.458792	0.463771	0.144251	0.066181	0.028934	0.3
-62	77.26	16.75791	0.467414	0.426335	0.132607	0.061982	0.026598	0.3
-63	77.26	16.75791	0.431099	0.426335	0.132607	0.057167	0.026598	0.3
-63	77.26	16.74055	0.41842	0.41136	0.127949	0.053537	0.025664	0.3
-63	77.26	16.74055	0.508564	0.321513	0.100003	0.050858	0.020059	0.2
-63	77.26	16.74055	0.517302	0.299051	0.093017	0.048118	0.018657	0.2
-64	77.26	16.74055	0.462001	0.314026	0.097675	0.045126	0.019592	0.3
-64	77.26	16.72318	0.435401	0.321513	0.100003	0.043542	0.020059	0.3
-64	77.26	16.72318	0.437068	0.314026	0.097675	0.04269	0.019592	0.3
-65	77.26	16.72318	0.417776	0.314026	0.097675	0.040806	0.019592	0.3
-65	77.26	16.70582	0.414667	0.291564	0.090688	0.037605	0.01819	0.3
-65	77.26	16.70582	0.528339	0.209204	0.065071	0.034379	0.013052	0.2
-65	77.26	16.70582	0.422708	0.246641	0.076715	0.032428	0.015388	0.3
-65	77.26	16.70582	0.367042	0.254128	0.079044	0.029012	0.015855	0.3
-66	77.26	16.70582	0.345043	0.254128	0.079044	0.027274	0.015855	0.4
-66	77.26	16.68846	0.33763	0.246641	0.076715	0.025901	0.015388	0.4
-66	77.26	16.68846	0.306637	0.261615	0.081373	0.024952	0.016322	0.4

-66	77.26	16.68846	0.318832	0.231666	0.072057	0.022974	0.014453	0.4
-67	77.26	16.67109	0.43656	0.156793	0.048769	0.021291	0.009782	0.3
-67	77.26	16.67109	0.393642	0.164281	0.051098	0.020114	0.010249	0.3
-67	77.26	16.65373	0.322941	0.186743	0.058084	0.018758	0.011651	0.4
-68	77.26	16.65373	0.320922	0.186743	0.058084	0.018641	0.011651	0.4
-68	77.26	16.63636	0.334828	0.179255	0.055756	0.018669	0.011183	0.4
-68	77.26	16.63636	0.320811	0.186743	0.058084	0.018634	0.011651	0.4
-68	77.26	16.619	0.30393	0.171768	0.053427	0.016238	0.010716	0.4
-69	77.26	16.619	0.411005	0.119357	0.037125	0.015258	0.007447	0.3
-69	77.26	16.60163	0.455925	0.096895	0.030138	0.013741	0.006045	0.3
-69	77.26	16.58427	0.305865	0.134332	0.041783	0.01278	0.008381	0.4
-69	77.26	16.56691	0.275329	0.141819	0.044111	0.012145	0.008848	0.4
-70	77.26	16.56691	0.305509	0.126844	0.039454	0.012053	0.007914	0.4
-70	77.26	16.54954	0.251824	0.141819	0.044111	0.011108	0.008848	0.5
-70	77.26	16.54954	0.27664	0.119357	0.037125	0.01027	0.007447	0.4
-70	77.26	16.53218	0.648598	0.044485	0.013836	0.008974	0.002775	0.2
-71	77.26	16.53218	0.368758	0.066946	0.020823	0.007679	0.004177	0.3
-71	77.26	16.51481	0.209027	0.104383	0.032467	0.006787	0.006512	0.6
-71	77.26	16.51481	0.271517	0.074434	0.023152	0.006286	0.004644	0.4
-2	84.73	27.57581	0.27226	1107.784	344.5652	93.81118	80.25327	0.5
-2	84.73	27.57581	0.237875	1140.369	354.7003	84.3744	82.61389	0.5
-3	84.73	27.55844	0.212664	1184.454	368.4124	78.34791	85.80762	0.6
-3	84.73	27.55844	0.301559	758.9378	236.06	71.18608	54.98116	0.4
-3	84.73	27.50635	0.121324	1684.722	524.016	63.57593	122.0495	1.0
-4	84.73	27.47162	0.129345	1481.548	460.8208	59.60464	107.3306	1.0
-4	84.73	27.4369	0.19322	975.5292	303.4287	58.62858	70.67209	0.7
-4	84.73	27.40217	0.179419	1006.197	312.9675	56.15244	72.89382	0.7
-5	84.73	27.35007	0.18873	852.858	265.273	50.06508	61.78519	0.7
-5	84.73	27.29798	0.129937	1115.451	346.95	45.08158	80.80871	1.0
-5	84.73	27.22853	0.125895	1102.034	342.7765	43.15374	79.83672	1.0
-5	84.73	27.17643	0.191942	714.8528	222.3478	42.67777	51.78742	0.7
-6	84.73	27.1417	0.165752	780.0219	242.618	40.21433	56.50859	0.8
-6	84.73	27.08961	0.137278	944.8614	293.8896	40.34443	68.45037	0.9
-6	84.73	27.03752	0.134392	889.276	276.6005	37.17281	64.42349	0.9
-6	84.73	27.00279	0.146704	760.8546	236.6562	34.71839	55.12002	0.9
-7	84.73	26.96806	0.186621	571.0975	177.6342	33.1502	41.37309	0.7
-7	84.73	26.93333	0.160167	636.2666	197.9043	31.69768	46.09426	0.8
-7	84.73	26.89861	0.122422	804.9395	250.3684	30.65065	58.31374	1.0
-7	84.73	26.88124	0.117919	801.1061	249.176	29.38248	58.03603	1.1
-8	84.73	26.84651	0.123942	749.3541	233.0791	28.88819	54.28687	1.0
-8	84.73	26.82915	0.131564	714.8528	222.3478	29.25292	51.78742	1.0
-8	84.73	26.81178	0.128938	705.2692	219.3669	28.28473	51.09314	1.0
-8	84.73	26.79442	0.132486	634.3499	197.3083	26.14052	45.9554	1.0
-9	84.73	26.79442	0.128038	605.5988	188.3655	24.118	43.87253	1.0
-9	84.73	26.77706	0.11861	634.3499	197.3082	23.40281	45.9554	1.1
-9	84.73	26.75969	0.114305	678.4348	211.0203	24.12064	49.14913	1.1
-9	84.73	26.74233	0.122825	632.4332	196.712	24.16117	45.81654	1.0
-10	84.73	26.74233	0.111588	665.0177	206.847	23.08157	48.17713	1.1
-10	84.73	26.72496	0.124242	571.0975	177.6341	22.06953	41.37309	1.0
-10	84.73	26.7076	0.136003	494.428	153.7869	20.91547	35.81878	0.9
-10	84.73	26.7076	0.13001	482.9276	150.2099	19.52885	34.98563	1.0
-10	84.73	26.7076	0.092523	657.3507	204.4624	18.91756	47.62169	1.4
-10	84.73	26.7076	0.098341	628.5997	195.5197	19.22765	45.53883	1.3
-11	84.73	26.7076	0.106873	599.8486	186.5769	19.93994	43.45596	1.2
-11	84.73	26.69023	0.113471	573.0143	178.2304	20.22398	41.51195	1.1
-11	84.73	26.69023	0.113243	563.4306	175.2494	19.84579	40.81766	1.1
-11	84.73	26.69023	0.114458	551.9302	171.6724	19.64926	39.98452	1.1
-11	84.73	26.69023	0.100889	619.016	192.5388	19.42509	44.84454	1.2
-11	84.73	26.67287	0.105457	603.6821	187.7692	19.80152	43.73368	1.2
-12	84.73	26.67287	0.115997	569.1808	177.038	20.53589	41.23423	1.1
-12	84.73	26.69023	0.126022	553.8469	172.2685	21.70969	40.12337	1.0
-12	84.73	26.69023	0.131189	527.0126	163.922	21.50483	38.17936	1.0
-12	84.73	26.67287	0.130552	515.5121	160.3449	20.93326	37.34621	1.0
-12	84.73	26.67287	0.136757	475.2607	147.8251	20.21612	34.4302	0.9
-13	84.73	26.67287	0.131681	479.0941	149.0174	19.62281	34.70791	1.0
-13	84.73	26.67287	0.135715	452.2598	140.6709	19.09112	32.76391	0.9
-13	84.73	26.67287	0.140593	421.592	131.132	18.43623	30.54218	0.9
-13	84.73	26.67287	0.133797	423.5087	131.7282	17.62477	30.68104	0.9
-13	84.73	26.67287	0.12262	450.343	140.0747	17.17598	32.62504	1.0
-13	84.73	26.67287	0.1206	440.7594	137.0938	16.53351	31.93076	1.0
-13	84.73	26.67287	0.126255	396.6744	123.3816	15.57749	28.73703	1.0

-13	84.73	26.67287	0.11051	433.0924	134.7091	14.88673	31.37533	1.1
-14	84.73	26.67287	0.101694	461.8435	143.6517	14.60849	33.4582	1.2
-14	84.73	26.67287	0.102224	459.9268	143.0557	14.62367	33.31934	1.2
-14	84.73	26.65551	0.10496	446.5096	138.8824	14.57712	32.34733	1.2
-14	84.73	26.67287	0.105947	440.7594	137.0938	14.52473	31.93076	1.2
-14	84.73	26.67287	0.104528	442.6761	137.69	14.39244	32.06962	1.2
-14	84.73	26.67287	0.1128	404.3414	125.7663	14.18643	29.29246	1.1
-15	84.73	26.67287	0.119156	369.9599	115.0723	13.7115	26.8017	1.1
-15	84.73	26.67287	0.106765	405.8987	126.2507	13.47916	29.40528	1.2
-15	84.73	26.67287	0.102022	427.2224	132.8833	13.55705	30.95007	1.2
-15	84.73	26.65551	0.103979	419.3159	130.424	13.56132	30.37729	1.2
-16	84.73	26.65551	0.108497	395.9556	123.158	13.36221	28.68495	1.2
-16	84.73	26.65551	0.10909	385.5334	119.9163	13.08162	27.92992	1.2
-16	84.73	26.65551	0.109503	376.3091	117.0472	12.81704	27.26167	1.1
-16	84.73	26.65551	0.106655	380.8613	118.4631	12.63463	27.59145	1.2
-16	84.73	26.65551	0.103265	386.1324	120.1026	12.40238	27.97331	1.2
-17	84.73	26.65551	0.107591	368.6421	114.6624	12.33661	26.70623	1.2
-17	84.73	26.63814	0.11228	358.1001	111.3834	12.50617	25.94252	1.1
-17	84.73	26.62078	0.1118	359.6574	111.8679	12.50678	26.05534	1.1
-17	84.73	26.60341	0.109143	365.4076	113.6564	12.40479	26.47191	1.2
-17	84.73	26.56869	0.11205	351.9904	109.4831	12.26762	25.4999	1.1
-17	84.73	26.55132	0.108637	362.1731	112.6504	12.23801	26.23759	1.2
-17	84.73	26.51659	0.10899	362.0533	112.6131	12.27365	26.22891	1.2
-17	84.73	26.48186	0.117018	335.6982	104.4155	12.21845	24.31961	1.1
-18	84.73	26.4645	0.11969	322.5206	100.3169	12.00687	23.36496	1.1
-18	84.73	26.42977	0.114726	329.7084	102.5525	11.76542	23.88568	1.1
-18	84.73	26.41241	0.114215	327.0729	101.7328	11.61942	23.69476	1.1
-18	84.73	26.39504	0.114159	324.4373	100.913	11.52011	23.50382	1.1
-18	84.73	26.37768	0.118221	310.1816	96.4789	11.40584	22.47107	1.1
-19	84.73	26.37768	0.120677	299.1604	93.05086	11.22914	21.67264	1.0
-19	84.73	26.36031	0.120829	295.6863	91.97024	11.11269	21.42096	1.0
-19	84.73	26.36031	0.119097	289.6965	90.10716	10.73152	20.98703	1.1
-19	84.73	26.36031	0.110604	292.931	91.11326	10.07745	21.22135	1.1
-19	84.73	26.34295	0.104015	296.0457	92.08204	9.577941	21.44699	1.2
-19	84.73	26.34295	0.098742	303.7126	94.46679	9.327809	22.00242	1.3
-19	84.73	26.34295	0.115634	306.8273	95.43558	11.03562	22.22807	1.1
-19	84.73	26.34295	0.112397	317.01	98.6028	11.08265	22.96575	1.1
-19	84.73	26.34295	0.093304	319.2861	99.31077	9.266132	23.13064	1.3
-19	84.73	26.34295	0.094525	322.6404	100.3541	9.48596	23.37364	1.3
-19	84.73	26.34295	0.096211	324.9165	101.062	9.723309	23.53854	1.3
-19	84.73	26.34295	0.09891	323.3592	100.5777	9.948148	23.42572	1.3
-19	84.73	26.34295	0.101322	319.7653	99.45979	10.07748	23.16536	1.2
-19	84.73	26.32559	0.102816	319.4059	99.34806	10.21454	23.13932	1.2
-19	84.73	26.32559	0.104635	322.88	100.4286	10.50837	23.391	1.2
-20	84.73	26.32559	0.109112	318.0882	98.93811	10.79536	23.04386	1.2
-20	84.73	26.32559	0.114932	307.5461	95.65914	10.9943	22.28014	1.1
-20	84.73	26.32559	0.117365	301.1969	93.68433	10.99524	21.82017	1.1
-20	84.73	26.32559	0.118853	295.6863	91.97024	10.93094	21.42096	1.1
-20	84.73	26.32559	0.118076	296.0457	92.08205	10.87267	21.44699	1.1
-20	84.73	26.32559	0.118583	294.7279	91.67218	10.87074	21.35153	1.1
-20	84.73	26.32559	0.121186	290.2955	90.29346	10.94226	21.03042	1.0
-21	84.73	26.32559	0.119976	295.2071	91.82123	11.01631	21.38624	1.0
-21	84.73	26.32559	0.120607	294.8477	91.7094	11.06077	21.36021	1.0
-21	84.73	26.32559	0.125144	282.7483	87.94603	11.0059	20.48367	1.0
-21	84.73	26.30822	0.128644	271.3677	84.40623	10.85838	19.6592	1.0
-21	84.73	26.30822	0.130344	263.1017	81.83517	10.66671	19.06037	1.0
-21	84.73	26.29086	0.129295	261.4246	81.31354	10.51346	18.93887	1.0
-21	84.73	26.25613	0.126264	265.6175	82.61768	10.43165	19.24263	1.0
-22	84.73	26.2214	0.124392	268.3728	83.47464	10.38355	19.44223	1.0
-22	84.73	26.16931	0.12306	269.9301	83.9591	10.33203	19.55505	1.0
-22	84.73	26.13458	0.125469	263.3413	81.90968	10.27715	19.07773	1.0
-22	84.73	26.08249	0.125255	260.8256	81.12721	10.16156	18.89548	1.0
-22	84.73	26.01303	0.1243	259.0287	80.56829	10.01465	18.7653	1.0
-22	84.73	25.92621	0.124717	256.513	79.78583	9.950649	18.58305	1.0
-22	84.73	25.83939	0.125206	254.5962	79.18961	9.915031	18.44419	1.0
-23	84.73	25.7352	0.12516	255.0754	79.33867	9.930051	18.47891	1.0
-23	84.73	25.63102	0.12623	252.3201	78.48164	9.906754	18.2793	1.0
-23	84.73	25.50947	0.128695	245.6115	76.39498	9.831629	17.79329	1.0
-23	84.73	25.40528	0.131515	236.6268	73.60041	9.679543	17.1424	1.0
-23	84.73	25.28373	0.131594	232.4339	72.29622	9.513763	16.83865	1.0
-24	84.73	25.16218	0.131529	230.038	71.55103	9.410999	16.66507	1.0

-24	84.73	25.058	0.131744	228.8401	71.17842	9.377294	16.57829	1.0
-24	84.73	24.95381	0.131888	229.3192	71.32745	9.407206	16.613	1.0
-24	84.73	24.84963	0.136123	222.8503	69.31533	9.435424	16.14436	0.9
-25	84.73	24.76281	0.137045	221.7721	68.97999	9.45337	16.06625	0.9
-25	84.73	24.65862	0.140962	215.4229	67.00518	9.44517	15.60629	0.9
-25	84.73	24.55444	0.140167	217.2198	67.56409	9.470222	15.73646	0.9
-25	84.73	24.45025	0.142262	215.3031	66.96789	9.526952	15.59761	0.9
-26	84.73	24.34607	0.143952	214.5843	66.74433	9.607974	15.54553	0.9
-26	84.73	24.22452	0.145745	212.9072	66.22267	9.651597	15.42404	0.9
-26	84.73	24.12033	0.149048	207.9955	64.69493	9.642624	15.06821	0.8
-26	84.73	23.99878	0.152215	201.4068	62.64558	9.535596	14.59089	0.8
-27	84.73	23.87723	0.156133	191.7033	59.62737	9.309825	13.88792	0.8
-27	84.73	23.72096	0.154986	188.2292	58.5468	9.073905	13.63624	0.8
-27	84.73	23.58204	0.155625	183.078	56.94458	8.861983	13.26306	0.8
-27	84.73	23.46049	0.155306	179.3643	55.78946	8.66446	12.99402	0.8
-28	84.73	23.33894	0.15588	173.4943	53.96367	8.411878	12.56877	0.8
-28	84.73	23.25212	0.153809	170.4994	53.03212	8.156817	12.35181	0.8
-28	84.73	23.14794	0.151155	168.343	52.36142	7.914685	12.19559	0.8
-29	84.73	23.04375	0.148539	166.6659	51.83976	7.700232	12.07409	0.8
-29	84.73	22.9222	0.145914	165.8273	51.57895	7.526071	12.01334	0.9
-29	84.73	22.78329	0.145394	163.9106	50.98274	7.412584	11.87448	0.9
-29	84.73	22.66174	0.147316	160.0771	49.79036	7.334937	11.59677	0.9
-30	84.73	22.52283	0.150037	155.8842	48.48622	7.274746	11.29301	0.8
-30	84.73	22.41864	0.153656	151.2122	47.03306	7.226898	10.95455	0.8
-30	84.73	22.29709	0.156408	147.9777	46.02697	7.198995	10.72023	0.8
-31	84.73	22.15818	0.159173	145.462	45.2445	7.201721	10.53798	0.8
-31	84.73	22.03663	0.162717	142.7067	44.38747	7.222586	10.33837	0.8
-31	84.73	21.91508	0.165618	140.3107	43.64226	7.22793	10.16479	0.8
-32	84.73	21.77617	0.169389	136.8367	42.56167	7.209458	9.913118	0.7
-32	84.73	21.60252	0.172757	133.123	41.40658	7.153281	9.644079	0.7
-32	84.73	21.46361	0.176731	128.8103	40.06517	7.080769	9.331646	0.7
-33	84.73	21.3247	0.179289	125.2164	38.94734	6.982826	9.071287	0.7
-33	84.73	21.18578	0.183238	120.784	37.56866	6.883998	8.750182	0.7
-33	84.73	21.0816	0.188297	116.1119	36.11546	6.800419	8.411712	0.7
-34	84.73	20.97741	0.194073	111.2003	34.58775	6.712559	8.055892	0.6
-34	84.73	20.87323	0.198444	107.247	33.35813	6.619713	7.769496	0.6
-34	84.73	20.80377	0.20693	101.7364	31.6441	6.5481	7.370281	0.6
-35	84.73	20.71695	0.213352	97.90292	30.45172	6.496947	7.092565	0.6
-35	84.73	20.63013	0.215468	96.34557	29.96734	6.456987	6.979743	0.6
-35	84.73	20.54331	0.213529	95.98619	29.85554	6.375011	6.953708	0.6
-35	84.73	20.45649	0.213909	94.18925	29.29661	6.266799	6.823529	0.6
-36	84.73	20.3523	0.20925	93.94965	29.2221	6.114735	6.806171	0.6
-36	84.73	20.24812	0.206697	92.27251	28.70044	5.932289	6.684671	0.6
-36	84.73	20.16129	0.206177	89.87659	27.95522	5.763718	6.511098	0.6
-36	84.73	20.05711	0.20737	87.24107	27.13545	5.627076	6.320169	0.6
-37	84.73	19.97029	0.205888	86.16291	26.80011	5.517819	6.242061	0.6
-37	84.73	19.88347	0.20856	84.00658	26.1294	5.449559	6.085846	0.6
-37	84.73	19.79665	0.211388	82.08984	25.53322	5.397417	5.946988	0.6
-38	84.73	19.70983	0.215542	79.81371	24.82525	5.350895	5.782094	0.6
-38	84.73	19.623	0.219159	78.01678	24.26634	5.318184	5.651916	0.6
-38	84.73	19.53618	0.221379	77.0584	23.96825	5.306066	5.582486	0.6
-38	84.73	19.46673	0.224575	75.62085	23.52111	5.282254	5.478343	0.6
-39	84.73	19.37991	0.229391	74.0635	23.03671	5.284418	5.365521	0.5
-39	84.73	19.32781	0.236357	72.38636	22.51506	5.321588	5.244021	0.5
-39	84.73	19.27572	0.245773	70.34982	21.88161	5.377912	5.096484	0.5
-40	84.73	19.22363	0.259593	67.71431	21.06186	5.4675	4.905555	0.5
-40	84.73	19.17154	0.277501	64.47981	20.0558	5.565499	4.671232	0.5
-40	84.73	19.11944	0.288709	61.8443	19.23605	5.553624	4.480303	0.4
-40	84.73	19.06735	0.303084	58.37021	18.15548	5.50263	4.228623	0.4
-41	84.73	19.01526	0.320409	54.65653	17.00037	5.447071	3.959586	0.4
-41	84.73	18.98053	0.34627	50.22408	15.6217	5.409318	3.638477	0.4
-41	84.73	18.92844	0.346653	49.74489	15.47266	5.363643	3.603762	0.4
-41	84.73	18.85898	0.370522	46.03121	14.31755	5.304969	3.334725	0.3
-42	84.73	18.77216	0.397247	42.67692	13.27424	5.273148	3.091724	0.3
-42	84.73	18.7027	0.433082	39.08304	12.15639	5.264706	2.831366	0.3
-42	84.73	18.63325	0.497911	33.69221	10.47963	5.217925	2.440828	0.3
-42	84.73	18.58115	0.52954	31.29629	9.734399	5.154754	2.267256	0.2
-43	84.73	18.5117	0.444792	36.92671	11.48569	5.108746	2.675151	0.3
-43	84.73	18.4596	0.413842	39.44243	12.26818	5.077084	2.857402	0.3
-43	84.73	18.42488	0.420968	38.60386	12.00734	5.054707	2.796652	0.3
-44	84.73	18.39015	0.44264	36.56732	11.3739	5.034541	2.649115	0.3

-44	84.73	18.33805	0.426701	37.2861	11.59747	4.948646	2.701187	0.3
-44	84.73	18.28596	0.42855	36.68712	11.41116	4.890253	2.657794	0.3
-44	84.73	18.25123	0.444159	35.48915	11.03855	4.902867	2.571007	0.3
-45	84.73	18.21651	0.472301	34.05161	10.59142	5.00234	2.466865	0.3
-45	84.73	18.19914	0.508871	32.85364	10.2188	5.200053	2.380078	0.2
-45	84.73	18.18178	0.555271	31.77548	9.883446	5.487994	2.301971	0.2
-46	84.73	18.16441	0.594423	30.69731	9.548094	5.675607	2.223863	0.2
-46	84.73	18.12968	0.633684	29.49935	9.175477	5.814353	2.137077	0.2
-46	84.73	18.11232	0.674875	28.54098	8.877388	5.991127	2.067648	0.2
-46	84.73	18.07759	0.720165	27.942	8.691081	6.25901	2.024255	0.2
-47	84.73	18.07759	0.732989	29.02017	9.026434	6.616274	2.102363	0.2
-47	84.73	18.06023	0.801488	28.18159	8.765606	7.025525	2.041612	0.2
-47	84.73	18.04286	0.944089	24.9471	7.759547	7.325705	1.80729	0.1
-47	84.73	18.0255	1.128191	21.79496	6.779104	7.648124	1.578933	0.1
-48	84.73	17.99077	1.357126	19.15945	5.959356	8.087597	1.388004	0.1
-48	84.73	17.95604	1.623061	17.28015	5.37482	8.723661	1.251858	0.1
-48	84.73	17.93868	1.769997	17.66949	5.495918	9.727759	1.280064	0.1
-49	84.73	17.92131	1.908588	18.56047	5.773049	11.01837	1.344611	0.1
-49	84.73	17.88659	2.111274	18.38078	5.717158	12.07049	1.331593	0.1
-49	84.73	17.86922	2.32652	17.43738	5.423725	12.6184	1.263249	0.1
-50	84.73	17.83449	2.518436	16.31429	5.074397	12.77954	1.181887	0.0
-50	84.73	17.81713	2.70474	15.06392	4.685483	12.67301	1.091304	0.0
-50	84.73	17.79976	2.998729	13.89591	4.322184	12.96106	1.006687	0.0
-51	84.73	17.79976	3.434531	12.75036	3.965871	13.62091	0.923698	0.0
-51	84.73	17.76504	4.084776	11.35773	3.532708	14.43032	0.822809	0.0
-51	84.73	17.74767	4.507047	10.46675	3.255576	14.67304	0.758262	0.0
-51	84.73	17.71294	4.662014	9.703046	3.018036	14.07013	0.702936	0.0
-52	84.73	17.67822	4.710778	8.722215	2.712958	12.78014	0.63188	0.0
-52	84.73	17.64349	4.481332	7.980977	2.482403	11.12447	0.578181	0.0
-52	84.73	17.62612	4.237212	7.217276	2.244862	9.511957	0.522855	0.0
-53	84.73	17.60876	3.97852	6.565885	2.042252	8.125142	0.475665	0.0
-53	84.73	17.57403	3.683003	5.966905	1.855946	6.835454	0.432272	0.0
-53	84.73	17.57403	3.020947	5.622491	1.74882	5.283092	0.407321	0.0
-54	84.73	17.55667	2.381007	5.435309	1.690599	4.025328	0.39376	0.1
-54	84.73	17.52194	2.104576	5.278077	1.641693	3.455067	0.38237	0.1
-54	84.73	17.48721	1.863031	5.083408	1.581144	2.94572	0.368267	0.1
-54	84.73	17.43512	1.673594	4.791405	1.490318	2.494188	0.347113	0.1
-55	84.73	17.40039	1.482414	4.589249	1.42744	2.116057	0.332468	0.1
-55	84.73	17.36566	1.310632	4.409555	1.371548	1.797595	0.31945	0.1
-55	84.73	17.33093	1.181876	4.214887	1.310998	1.549438	0.305347	0.1
-56	84.73	17.27884	1.058717	3.990269	1.241133	1.314009	0.289075	0.1
-56	84.73	17.24411	0.975729	3.750677	1.166611	1.138296	0.271717	0.1
-56	84.73	17.22675	0.900777	3.556008	1.106061	0.996314	0.257615	0.1
-57	84.73	17.19202	0.847216	3.316416	1.031538	0.873935	0.240257	0.1
-57	84.73	17.15729	0.776881	3.174158	0.98729	0.767007	0.229951	0.2
-57	84.73	17.13993	0.698083	3.11426	0.96866	0.676205	0.225612	0.2
-58	84.73	17.12256	0.647076	2.986976	0.929069	0.601179	0.216391	0.2
-58	84.73	17.1052	0.618901	2.784821	0.866191	0.536086	0.201746	0.2
-58	84.73	17.07047	0.570485	2.717435	0.845231	0.482191	0.196864	0.2
-58	84.73	17.0531	0.544306	2.582664	0.803312	0.437248	0.187101	0.2
-59	84.73	17.01838	0.525175	2.440407	0.759064	0.398642	0.176795	0.2
-59	84.73	17.00101	0.522283	2.238251	0.696185	0.363606	0.16215	0.2
-59	84.73	16.96628	0.504798	2.163378	0.672897	0.339677	0.156726	0.2
-60	84.73	16.94892	0.488747	2.10348	0.654266	0.319771	0.152386	0.3
-60	84.73	16.93155	0.485077	1.998659	0.621663	0.301554	0.144793	0.3
-60	84.73	16.91419	0.482864	1.88635	0.58673	0.283311	0.136656	0.3
-61	84.73	16.89683	0.490038	1.751579	0.544811	0.266978	0.126893	0.3
-61	84.73	16.89683	0.463042	1.751579	0.544811	0.252271	0.126893	0.3
-61	84.73	16.87946	0.450209	1.699168	0.528509	0.23794	0.123096	0.3
-61	84.73	16.8621	0.442149	1.631783	0.50755	0.224413	0.118214	0.3
-62	84.73	16.8621	0.43895	1.55691	0.484261	0.212567	0.11279	0.3
-62	84.73	16.8621	0.432552	1.497012	0.465631	0.201409	0.108451	0.3
-62	84.73	16.84473	0.431966	1.429627	0.444671	0.192083	0.103569	0.3
-62	84.73	16.84473	0.42529	1.377216	0.428369	0.182181	0.099772	0.3
-63	84.73	16.82737	0.418891	1.324805	0.412067	0.172612	0.095975	0.3
-63	84.73	16.82737	0.412694	1.272395	0.395766	0.16333	0.092178	0.3
-63	84.73	16.81001	0.404116	1.227471	0.381793	0.154288	0.088924	0.3
-63	84.73	16.81001	0.392797	1.190035	0.370148	0.145393	0.086212	0.3
-64	84.73	16.81001	0.385628	1.137624	0.353847	0.136453	0.082415	0.3
-64	84.73	16.81001	0.387635	1.070239	0.332887	0.129038	0.077533	0.3
-64	84.73	16.81001	0.389102	1.010341	0.314256	0.122278	0.073194	0.3

-65	84.73	16.81001	0.395844	0.942955	0.293297	0.1161	0.068312	0.3
-65	84.73	16.79264	0.396135	0.898032	0.279324	0.11065	0.065058	0.3
-65	84.73	16.79264	0.374344	0.905519	0.281653	0.105435	0.0656	0.3
-65	84.73	16.79264	0.35948	0.898032	0.279324	0.100411	0.065058	0.4
-66	84.73	16.77528	0.36271	0.845621	0.263022	0.095401	0.061261	0.3
-66	84.73	16.77528	0.348011	0.838134	0.260693	0.090724	0.060718	0.4
-66	84.73	16.75791	0.343576	0.808185	0.251378	0.086367	0.058549	0.4
-66	84.73	16.74055	0.365258	0.725825	0.225761	0.082461	0.052582	0.3
-67	84.73	16.74055	0.366516	0.688389	0.214116	0.078477	0.04987	0.3
-67	84.73	16.72318	0.37676	0.635978	0.197815	0.074529	0.046073	0.3
-67	84.73	16.70582	0.385992	0.598542	0.18617	0.07186	0.043361	0.3
-67	84.73	16.70582	0.376221	0.583567	0.181513	0.068289	0.042276	0.3
-68	84.73	16.70582	0.375585	0.553618	0.172197	0.064675	0.040107	0.3
-68	84.73	16.70582	0.359948	0.546131	0.169869	0.061144	0.039564	0.3
-68	84.73	16.68846	0.355368	0.523669	0.162882	0.057883	0.037937	0.4
-68	84.73	16.68846	0.351606	0.49372	0.153567	0.053995	0.035767	0.4
-69	84.73	16.68846	0.339952	0.478746	0.148909	0.050622	0.034683	0.4
-69	84.73	16.67109	0.334157	0.463771	0.144251	0.048203	0.033598	0.4
-69	84.73	16.67109	0.3335	0.448797	0.139594	0.046554	0.032513	0.4
-69	84.73	16.67109	0.340648	0.418847	0.130278	0.044379	0.030343	0.4
-70	84.73	16.67109	0.332355	0.41136	0.127949	0.042525	0.029801	0.4
-70	84.73	16.67109	0.311737	0.418847	0.130278	0.040613	0.030343	0.4
-70	84.73	16.67109	0.304445	0.403873	0.125621	0.038245	0.029259	0.4
-71	84.73	16.67109	0.295047	0.396386	0.123292	0.036377	0.028716	0.4
-71	84.73	16.67109	0.30437	0.366437	0.113976	0.034691	0.026546	0.4
-71	84.73	16.65373	0.294296	0.366437	0.113976	0.033543	0.026546	0.4
-71	84.73	16.65373	0.298179	0.343975	0.10699	0.031902	0.024919	0.4
-71	84.73	16.63636	0.306881	0.321513	0.100003	0.030689	0.023292	0.4
-72	84.73	16.63636	0.323138	0.291564	0.090688	0.029305	0.021122	0.4
-72	84.73	16.63636	0.313854	0.291564	0.090688	0.028463	0.021122	0.4
-72	84.73	16.63636	0.301806	0.291564	0.090688	0.02737	0.021122	0.4
-73	84.73	16.63636	0.284137	0.291564	0.090688	0.025768	0.021122	0.4
-73	84.73	16.619	0.273138	0.284077	0.088359	0.024134	0.02058	0.5
-73	84.73	16.619	0.282278	0.261615	0.081373	0.02297	0.018953	0.4
-73	84.73	16.60163	0.279902	0.246641	0.076715	0.021473	0.017868	0.4
-74	84.73	16.60163	0.276987	0.231666	0.072057	0.019959	0.016783	0.5
-74	84.73	16.60163	0.267148	0.224179	0.069729	0.018628	0.016241	0.5
-74	84.73	16.58427	0.266607	0.216692	0.0674	0.017969	0.015698	0.5
-74	84.73	16.58427	0.261006	0.216692	0.0674	0.017592	0.015698	0.5
-75	84.73	16.58427	0.248542	0.216692	0.0674	0.016752	0.015698	0.5
-75	84.73	16.58427	0.24629	0.224179	0.069729	0.017173	0.016241	0.5
-75	84.73	16.56691	0.240825	0.209204	0.065071	0.015671	0.015156	0.5
-76	84.73	16.56691	0.238539	0.209204	0.065071	0.015522	0.015156	0.5
-76	84.73	16.54954	0.237324	0.201717	0.062742	0.01489	0.014613	0.5
-76	84.73	16.54954	0.247141	0.19423	0.060413	0.014931	0.014071	0.5
-76	84.73	16.54954	0.246166	0.186743	0.058084	0.014298	0.013529	0.5
-77	84.73	16.54954	0.258082	0.171768	0.053427	0.013788	0.012444	0.5
-77	84.73	16.53218	0.275604	0.149306	0.04644	0.012799	0.010816	0.5
-77	84.73	16.53218	0.337144	0.126844	0.039454	0.013302	0.009189	0.4
-77	84.73	16.51481	0.370453	0.11187	0.034796	0.01289	0.008104	0.3
-78	84.73	16.49745	0.354742	0.104383	0.032467	0.011517	0.007562	0.4
-78	84.73	16.48009	0.333639	0.096895	0.030138	0.010055	0.00702	0.4
-78	84.73	16.48009	0.323272	0.089408	0.02781	0.00899	0.006477	0.4
-78	84.73	16.46272	0.331075	0.081921	0.025481	0.008436	0.005935	0.4
-79	84.73	16.44536	0.330252	0.066946	0.020823	0.006877	0.00485	0.4
-79	84.73	16.42799	0.305486	0.066946	0.020823	0.006361	0.00485	0.4
-79	84.73	16.42799	0.360356	0.051972	0.016165	0.005825	0.003765	0.3
-79	84.73	16.41063	0.428833	0.036997	0.011508	0.004935	0.00268	0.3
-80	84.73	16.41063	0.327836	0.036997	0.011508	0.003773	0.00268	0.4
-80	84.73	16.39326	0.323362	0.044485	0.013836	0.004474	0.003223	0.4
-80	84.73	16.39326	0.276777	0.051972	0.016165	0.004474	0.003765	0.5
-81	84.73	16.3759	0.219218	0.059459	0.018494	0.004054	0.004308	0.6
-81	84.73	16.35854	0.175116	0.074434	0.023152	0.004054	0.005392	0.7
-81	84.73	16.34117	0.159111	0.081921	0.025481	0.004054	0.005935	0.8
-81	84.73	16.34117	0.142631	0.081921	0.025481	0.003634	0.005935	0.9
-82	84.73	16.32381	0.126151	0.081921	0.025481	0.003214	0.005935	1.0
-82	84.73	16.30644	0.100486	0.089408	0.02781	0.002794	0.006477	1.3
-82	84.73	16.30644	0.100486	0.089408	0.02781	0.002794	0.006477	1.3
-82	84.73	16.28908	0.078788	0.096895	0.030138	0.002375	0.00702	1.6
-83	84.73	16.28908	0.078788	0.096895	0.030138	0.002375	0.00702	1.6
-83	84.73	16.27172	0.077192	0.081921	0.025481	0.001967	0.005935	1.6

-83	84.73	16.27172	0.076126	0.089408	0.02781	0.002117	0.006477	1.7
-83	84.73	16.25435	0.05607	0.081921	0.025481	0.001429	0.005935	2.2
-84	84.73	16.25435	0.073439	0.081921	0.025481	0.001871	0.005935	1.7
-84	84.73	16.25435	0.076326	0.081921	0.025481	0.001945	0.005935	1.6
-84	84.73	16.23699	0.068053	0.074434	0.023152	0.001576	0.005392	1.8
-84	84.73	16.23699	0.048282	0.074434	0.023152	0.001118	0.005392	2.6
-85	84.73	16.23699	0.0593	0.081921	0.025481	0.001511	0.005935	2.1
-2	98.93	27.24589	0.141771	1132.702	352.3155	49.94823	67.00393	0.8
-2	98.93	27.22853	0.203634	753.1876	234.2714	47.7055	44.55411	0.5
-3	98.93	27.22853	0.097889	1418.296	441.1467	43.18348	83.89798	1.1
-3	98.93	27.22853	0.127334	996.6133	309.9866	39.4718	58.95373	0.9
-3	98.93	27.24589	0.122534	933.361	290.3126	35.57325	55.2121	0.9
-3	98.93	27.22853	0.091399	1280.29	398.2215	36.39713	75.73436	1.2
-3	98.93	27.22853	0.110537	755.1044	234.8676	25.96158	44.6675	1.0
-3	98.93	27.22853	0.137957	718.6863	223.5402	30.83891	42.51322	0.8
-3	98.93	27.22853	0.066722	1113.534	346.3537	23.10925	65.87007	1.7
-3	98.93	27.21116	0.042311	1602.302	498.3801	21.08706	94.78268	2.6
-3	98.93	27.21116	0.060079	1169.12	363.643	21.84736	69.15821	1.8
-3	98.93	27.21116	0.066967	1034.948	321.9103	21.55739	61.22139	1.7
-3	98.93	27.21116	0.076128	870.1086	270.6386	20.60331	51.47046	1.5
-3	98.93	27.21116	0.068735	1021.531	317.7369	21.83958	60.42772	1.6
-3	98.93	27.21116	0.051789	1370.377	426.2421	22.07474	81.06338	2.1
-3	98.93	27.1938	0.118205	592.1816	184.1921	21.77239	35.02995	0.9
-3	98.93	27.1938	0.025718	2967.02	922.8617	23.7343	175.5113	4.3
-3	98.93	27.1938	0.090813	789.6057	245.5989	22.30367	46.70839	1.2
-3	98.93	27.1938	0.075398	939.1111	292.1011	22.02378	55.55224	1.5
-4	98.93	27.15907	0.053534	1314.792	408.9529	21.8929	77.7753	2.1
-4	98.93	27.1417	0.10208	695.6855	216.386	22.08868	41.15263	1.1
-4	98.93	27.12434	0.047513	1573.551	489.4375	23.25452	93.08194	2.3
-4	98.93	27.12434	0.034826	2075.737	645.637	22.48524	122.7883	3.2
-5	98.93	27.12434	0.06164	1186.37	369.0086	22.74586	70.17861	1.8
-5	98.93	27.08961	0.039966	1696.223	527.5932	21.08587	100.3385	2.8
-5	98.93	27.07225	0.09463	760.8546	236.6562	22.39473	45.00765	1.2
-5	98.93	27.05488	0.088201	697.6022	216.9822	19.13807	41.26601	1.3
-5	98.93	27.03752	0.111048	544.2632	169.2877	18.79904	32.19538	1.0
-5	98.93	27.02015	0.057279	1073.283	333.8339	19.12182	63.48906	1.9
-5	98.93	27.00279	0.073532	787.6889	245.0028	18.0155	46.595	1.5
-5	98.93	26.98543	0.070123	804.9395	250.3684	17.55648	47.61545	1.6
-6	98.93	26.96806	0.077691	622.8494	193.7311	15.05108	36.84408	1.4
-6	98.93	26.9507	0.04203	988.9464	307.6019	12.92838	58.5002	2.6
-6	98.93	26.9507	0.061336	590.2649	183.596	11.26109	34.91657	1.8
-6	98.93	26.93333	0.049504	663.101	206.251	10.21019	39.22512	2.2
-6	98.93	26.91597	0.046023	712.9361	221.7517	10.20564	42.17307	2.4
-6	98.93	26.89861	0.055429	578.7645	180.0189	9.978271	34.23628	2.0
-7	98.93	26.89861	0.036221	910.3601	283.1584	10.25618	53.8515	3.1
-7	98.93	26.88124	0.051966	676.5181	210.4242	10.93484	40.0188	2.1
-7	98.93	26.88124	0.05529	638.1833	198.5006	10.97515	37.75114	2.0
-7	98.93	26.88124	0.039995	766.6048	238.4447	9.536577	45.34779	2.8
-8	98.93	26.86388	0.051107	615.1825	191.3464	9.779184	36.39055	2.2
-8	98.93	26.86388	0.044456	665.0177	206.8471	9.195669	39.3385	2.5
-8	98.93	26.84651	0.034418	931.4442	289.7164	9.971588	55.09871	3.2
-8	98.93	26.84651	0.052205	605.5988	188.3654	9.833594	35.82363	2.1
-8	98.93	26.82915	0.052189	622.8494	193.7311	10.11066	36.84408	2.1
-8	98.93	26.84651	0.049897	770.4382	239.6372	11.95719	45.57455	2.2
-8	98.93	26.82915	0.048426	737.8537	229.502	11.1139	43.64705	2.3
-8	98.93	26.82915	0.03381	1077.116	335.0262	11.32739	63.71579	3.3
-8	98.93	26.81178	0.058982	601.7653	187.1731	11.03992	35.59687	1.9
-8	98.93	26.81178	0.074792	456.0933	141.8632	10.61018	26.97977	1.5
-9	98.93	26.81178	0.051941	640.1001	199.0968	10.3413	37.86453	2.1
-9	98.93	26.81178	0.052801	601.7653	187.1731	9.882985	35.59687	2.1
-9	98.93	26.79442	0.063301	481.0109	149.6136	9.470624	28.45375	1.8
-9	98.93	26.79442	0.04413	666.9344	207.4433	9.154378	39.45188	2.5
-9	98.93	26.79442	0.044772	645.8503	200.8853	8.994067	38.20467	2.5
-9	98.93	26.79442	0.062757	425.4255	132.3244	8.304228	25.16565	1.8
-9	98.93	26.77706	0.041306	634.3499	197.3082	8.149969	37.52438	2.7
-9	98.93	26.77706	0.041335	596.0151	185.3846	7.662786	35.25672	2.7
-10	98.93	26.77706	0.037512	684.1851	212.8089	7.982993	40.47233	3.0
-10	98.93	26.75969	0.047299	532.7628	165.7105	7.837901	31.51509	2.3
-10	98.93	26.74233	0.043318	557.6804	173.4609	7.514035	32.98906	2.6
-10	98.93	26.74233	0.041608	584.5147	181.8074	7.564622	34.57642	2.7
-10	98.93	26.74233	0.05046	500.1783	155.5754	7.850382	29.58758	2.2

-11	98.93	26.74233	0.03775	670.7679	208.6357	7.875904	39.67865	2.9
-11	98.93	26.74233	0.040457	636.2666	197.9044	8.006593	37.63776	2.7
-11	98.93	26.72496	0.045022	628.5997	195.5196	8.802665	37.18423	2.5
-11	98.93	26.72496	0.054351	530.8461	165.1143	8.974048	31.40171	2.0
-11	98.93	26.74233	0.060119	486.7611	151.4022	9.102128	28.7939	1.8
-11	98.93	26.72496	0.061259	444.5928	138.2861	8.471308	26.29947	1.8
-12	98.93	26.72496	0.040576	665.0177	206.8471	8.393013	39.3385	2.7
-12	98.93	26.72496	0.046646	580.6812	180.6151	8.424972	34.34966	2.4
-12	98.93	26.72496	0.057771	471.4272	146.6327	8.471066	27.88684	1.9
-12	98.93	26.7076	0.055531	488.6778	151.9983	8.440606	28.90728	2.0
-12	98.93	26.7076	0.052077	494.428	153.7869	8.008701	29.24743	2.1
-12	98.93	26.7076	0.054787	444.5928	138.2861	7.576321	26.29947	2.0
-12	98.93	26.7076	0.055782	467.5937	145.4403	8.112904	27.66007	2.0
-12	98.93	26.7076	0.052478	498.2615	154.9793	8.133061	29.4742	2.1
-12	98.93	26.72496	0.058255	438.8427	136.4976	7.951651	25.95933	1.9
-12	98.93	26.7076	0.051229	490.5945	152.5945	7.817273	29.02066	2.2
-12	98.93	26.7076	0.045105	569.1808	177.038	7.985248	33.66936	2.5
-13	98.93	26.7076	0.048663	540.4297	168.0952	8.180093	31.96862	2.3
-13	98.93	26.7076	0.057645	461.8435	143.6518	8.280878	27.31992	1.9
-13	98.93	26.69023	0.047545	557.6804	173.4609	8.247282	32.98906	2.3
-13	98.93	26.69023	0.05685	461.8435	143.6518	8.166658	27.31992	2.0
-13	98.93	26.69023	0.055034	481.0109	149.6136	8.233847	28.45375	2.0
-13	98.93	26.7076	0.043218	619.016	192.5387	8.321188	36.61732	2.6
-14	98.93	26.69023	0.049766	542.3465	168.6915	8.395099	32.082	2.2
-14	98.93	26.7076	0.055383	498.2615	154.9793	8.583227	29.4742	2.0
-14	98.93	26.69023	0.048874	578.7645	180.0189	8.798233	34.23628	2.3
-14	98.93	26.7076	0.049695	578.7645	180.0189	8.946046	34.23628	2.2
-14	98.93	26.69023	0.069075	412.0083	128.1511	8.851982	24.37197	1.6
-14	98.93	26.69023	0.062853	440.7594	137.0938	8.616819	26.07271	1.8
-15	98.93	26.67287	0.050308	548.0967	170.48	8.576509	32.42215	2.2
-15	98.93	26.69023	0.043627	659.2675	205.0585	8.946046	38.99836	2.5
-15	98.93	26.67287	0.049949	601.7653	187.1731	9.34918	35.59687	2.2
-15	98.93	26.67287	0.062848	481.0109	149.6136	9.402929	28.45375	1.8
-16	98.93	26.65551	0.060094	500.1783	155.5755	9.34918	29.58758	1.8
-16	98.93	26.65551	0.040183	659.2675	205.0585	8.239769	38.99836	2.8
-16	98.93	26.63814	0.04555	596.0151	185.3845	8.444235	35.25672	2.4
-16	98.93	26.63814	0.047218	567.264	176.4418	8.331263	33.55597	2.4
-17	98.93	26.62078	0.052929	513.5954	159.7487	8.455316	30.38126	2.1
-17	98.93	26.62078	0.058378	465.677	144.8442	8.455666	27.54669	1.9
-17	98.93	26.60341	0.051284	519.3456	161.5373	8.284213	30.72141	2.2
-17	98.93	26.58605	0.040818	638.1833	198.5006	8.102324	37.75114	2.7
-18	98.93	26.56869	0.050615	513.5954	159.7487	8.085653	30.38126	2.2
-18	98.93	26.56869	0.054925	496.3448	154.3831	8.479547	29.36081	2.0
-18	98.93	26.53396	0.052355	523.1791	162.7297	8.519675	30.94817	2.1
-18	98.93	26.53396	0.06555	400.5079	124.574	8.16588	23.69167	1.7
-19	98.93	26.51659	0.052228	479.0941	149.0175	7.782869	28.34037	2.1
-19	98.93	26.49923	0.044828	544.2632	169.2876	7.588793	32.19538	2.5
-19	98.93	26.48186	0.051145	484.8443	150.806	7.713023	28.68051	2.2
-19	98.93	26.48186	0.055003	463.7602	144.248	7.934095	27.4333	2.0
-19	98.93	26.48186	0.054333	471.4272	146.6327	7.967026	27.88684	2.0
-20	98.93	26.4645	0.049802	504.0117	156.7678	7.807415	29.81434	2.2
-20	98.93	26.44714	0.049958	505.9285	157.3641	7.861614	29.92773	2.2
-20	98.93	26.42977	0.057501	442.6761	137.69	7.917312	26.18609	1.9
-20	98.93	26.42977	0.052734	484.8443	150.806	7.95261	28.68051	2.1
-20	98.93	26.42977	0.057477	465.677	144.8442	8.325245	27.54669	1.9
-20	98.93	26.41241	0.058846	452.2598	140.6709	8.277967	26.75301	1.9
-21	98.93	26.39504	0.055814	477.1774	148.4213	8.283959	28.22698	2.0
-21	98.93	26.36031	0.05958	446.5096	138.8823	8.274558	26.41286	1.9
-21	98.93	26.30822	0.054743	481.0109	149.6136	8.190336	28.45375	2.0
-22	98.93	26.27349	0.057767	454.1765	141.2671	8.160597	26.86639	1.9
-22	98.93	26.20404	0.059002	436.9259	135.9014	8.01846	25.84594	1.9
-22	98.93	26.16931	0.063725	392.8409	122.1893	7.786532	23.23814	1.7
-22	98.93	26.11722	0.065573	370.9182	115.3704	7.565214	21.94132	1.7
-23	98.93	26.04776	0.059634	398.7109	124.015	7.395525	23.58537	1.9
-23	98.93	25.96094	0.062638	376.4289	117.0844	7.333891	22.2673	1.8
-23	98.93	25.87412	0.059249	400.9871	124.723	7.389706	23.72002	1.9
-24	98.93	25.76993	0.06879	338.2139	105.198	7.236544	20.00673	1.6
-24	98.93	25.68311	0.066704	340.1306	105.7942	7.056863	20.12011	1.7
-24	98.93	25.61365	0.063638	345.5215	107.471	6.839286	20.439	1.7
-25	98.93	25.5442	0.066711	319.1663	99.27352	6.622646	18.87999	1.7
-25	98.93	25.47474	0.065138	317.7288	98.82639	6.437323	18.79495	1.7

-25	98.93	25.42265	0.065241	313.5359	97.52221	6.362431	18.54692	1.7
-26	98.93	25.35319	0.067518	301.7959	93.87062	6.337958	17.85246	1.6
-26	98.93	25.26637	0.069174	290.5351	90.36802	6.251092	17.18633	1.6
-26	98.93	25.17955	0.0678	291.2538	90.59159	6.142081	17.22885	1.6
-27	98.93	25.12746	0.072895	261.185	81.23899	5.921912	15.45016	1.5
-27	98.93	25.04064	0.071816	256.3932	79.74853	5.727184	15.1667	1.5
-27	98.93	24.93645	0.075629	234.7101	73.00422	5.521267	13.88406	1.5
-28	98.93	24.8149	0.072314	235.4288	73.22781	5.295408	13.92657	1.5
-28	98.93	24.67599	0.073115	225.366	70.09783	5.125235	13.33132	1.5
-28	98.93	24.51971	0.072873	218.0584	67.82486	4.942611	12.89904	1.5
-28	98.93	24.41552	0.074748	205.36	63.87517	4.774555	12.14788	1.5
-29	98.93	24.29397	0.07294	204.4017	63.57709	4.637321	12.09119	1.5
-29	98.93	24.17243	0.070774	205.1204	63.80068	4.51542	12.13371	1.6
-29	98.93	24.10297	0.069116	202.7245	63.05541	4.358141	11.99198	1.6
-29	98.93	24.01615	0.067839	199.49	62.04937	4.209341	11.80065	1.6
-30	98.93	23.94669	0.069576	187.3906	58.28597	4.055322	11.08492	1.6
-30	98.93	23.87723	0.067431	189.1876	58.8449	3.967977	11.19122	1.6
-30	98.93	23.79041	0.066051	191.1043	59.44107	3.926129	11.3046	1.7
-30	98.93	23.73832	0.064712	195.7763	60.89427	3.940567	11.58096	1.7
-31	98.93	23.6515	0.067142	189.7865	59.03121	3.963467	11.22664	1.7
-31	98.93	23.58204	0.069653	183.1978	56.98183	3.968948	10.8369	1.6
-31	98.93	23.51259	0.070796	180.5622	56.16208	3.976039	10.68099	1.6
-32	98.93	23.42576	0.07157	179.3643	55.78946	3.992835	10.61013	1.6
-32	98.93	23.35631	0.0697	185.8333	57.80158	4.028797	10.9928	1.6
-32	98.93	23.28685	0.070147	185.8333	57.80158	4.054617	10.9928	1.6
-33	98.93	23.20003	0.070431	187.5104	58.32324	4.107749	11.092	1.6
-33	98.93	23.11321	0.07153	186.4323	57.98789	4.147886	11.02823	1.6
-33	98.93	23.04375	0.075563	175.8902	54.70888	4.133945	10.40462	1.5
-34	98.93	22.95693	0.078571	167.0253	51.95154	4.081896	9.880226	1.4
-34	98.93	22.88747	0.080155	161.2751	50.163	4.020815	9.540078	1.4
-34	98.93	22.81802	0.076916	165.9471	51.61619	3.970132	9.816446	1.4
-35	98.93	22.74856	0.076138	164.9887	51.3181	3.907245	9.759753	1.5
-35	98.93	22.6791	0.076324	162.1136	50.42383	3.848554	9.589679	1.5
-35	98.93	22.60965	0.076534	159.7177	49.6786	3.802081	9.447952	1.5
-36	98.93	22.55755	0.076397	158.0406	49.15695	3.755441	9.348745	1.5
-36	98.93	22.50546	0.076625	155.7645	48.44898	3.712388	9.214104	1.4
-36	98.93	22.45337	0.077724	152.1706	47.33113	3.678775	9.00151	1.4
-37	98.93	22.38391	0.079818	147.2589	45.80342	3.655956	8.710963	1.4
-37	98.93	22.33182	0.082245	142.7067	44.38749	3.650653	8.441682	1.4
-37	98.93	22.27973	0.083307	141.3889	43.97761	3.66363	8.363729	1.3
-38	98.93	22.22763	0.085221	137.795	42.85977	3.65255	8.151135	1.3
-38	98.93	22.19291	0.084051	138.1544	42.97155	3.6118	8.172395	1.3
-38	98.93	22.15818	0.082625	138.2742	43.00881	3.553603	8.179482	1.3
-39	98.93	22.12345	0.08474	131.925	41.03396	3.477217	7.803901	1.3
-39	98.93	22.08872	0.085667	127.3728	39.61802	3.39396	7.534619	1.3
-39	98.93	22.07136	0.085914	124.7373	38.79828	3.333308	7.378719	1.3
-39	98.93	22.03663	0.087731	121.5028	37.79222	3.315564	7.187385	1.3
-40	98.93	22.01926	0.087432	122.3413	38.05305	3.327071	7.236986	1.3
-40	98.93	22.0019	0.091322	117.9089	36.67438	3.349169	6.974791	1.2
-40	98.93	21.98454	0.092459	116.2317	36.15272	3.342644	6.875578	1.2
-41	98.93	21.96717	0.094708	113.117	35.18392	3.332203	6.691331	1.2
-41	98.93	21.94981	0.09589	111.3201	34.625	3.320198	6.585037	1.2
-41	98.93	21.94981	0.090078	118.2683	36.78616	3.313617	6.996051	1.2
-41	98.93	21.93244	0.087233	123.1799	38.31388	3.342233	7.286592	1.3
-42	98.93	21.91508	0.088025	123.5393	38.42567	3.382426	7.307852	1.3
-42	98.93	21.89771	0.089712	122.7007	38.16483	3.423859	7.258246	1.2
-42	98.93	21.86299	0.094914	117.4297	36.52533	3.466763	6.946445	1.2
-42	98.93	21.84562	0.100465	111.7993	34.77405	3.493572	6.613384	1.1
-43	98.93	21.82826	0.106483	106.648	33.17182	3.532218	6.308663	1.0
-43	98.93	21.81089	0.108054	105.9293	32.94825	3.560193	6.266149	1.0
-43	98.93	21.79353	0.109419	104.9709	32.65016	3.572535	6.209456	1.0
-44	98.93	21.7588	0.110708	103.8927	32.31478	3.577515	6.145676	1.0
-44	98.93	21.72407	0.111704	102.575	31.90493	3.563908	6.067729	1.0
-44	98.93	21.68934	0.113171	101.1374	31.45777	3.560092	5.982689	1.0
-44	98.93	21.65462	0.114422	100.5384	31.27149	3.578143	5.947255	1.0
-45	98.93	21.63725	0.115451	99.81966	31.0479	3.584521	5.904739	1.0
-45	98.93	21.60252	0.117584	98.14252	30.52625	3.589399	5.805529	0.9
-45	98.93	21.56779	0.120154	96.34557	29.96734	3.600705	5.699233	0.9
-46	98.93	21.55043	0.125772	92.75169	28.8495	3.62847	5.48664	0.9
-46	98.93	21.53307	0.130883	89.63699	27.8807	3.649112	5.302393	0.8
-46	98.93	21.5157	0.130368	90.47557	28.14153	3.668744	5.351998	0.9

-47	98.93	21.49834	0.132712	90.11618	28.02974	3.719872	5.330739	0.8
-47	98.93	21.46361	0.141595	85.80352	26.68833	3.778932	5.075627	0.8
-47	98.93	21.44625	0.158141	78.49596	24.41539	3.861072	4.643355	0.7
-47	98.93	21.42888	0.172223	73.9437	22.99945	3.961041	4.374071	0.6
-48	98.93	21.41152	0.169149	76.21983	23.70742	4.010081	4.508713	0.7
-48	98.93	21.41152	0.156538	81.13147	25.23514	3.950255	4.799257	0.7
-48	98.93	21.39415	0.151159	80.77209	25.12335	3.797629	4.777998	0.7
-49	98.93	21.37679	0.149102	78.25636	24.34086	3.629276	4.629182	0.7
-49	98.93	21.37679	0.143018	78.01678	24.26634	3.470531	4.61501	0.8
-49	98.93	21.35942	0.142719	75.14167	23.37207	3.335643	4.444936	0.8
-49	98.93	21.34206	0.148191	70.58942	21.95614	3.253702	4.175651	0.7
-50	98.93	21.3247	0.147918	69.75084	21.6953	3.209119	4.126046	0.8
-50	98.93	21.30733	0.145931	71.0686	22.10518	3.225828	4.203997	0.8
-50	98.93	21.28997	0.150806	70.34982	21.88161	3.299878	4.161478	0.7
-51	98.93	21.2726	0.157188	69.39146	21.58352	3.392672	4.104787	0.7
-51	98.93	21.25524	0.159483	69.63104	21.65804	3.454096	4.118959	0.7
-51	98.93	21.22051	0.155417	72.26656	22.4778	3.493437	4.274861	0.7
-51	98.93	21.20315	0.151687	74.42289	23.1485	3.511315	4.402417	0.7
-52	98.93	21.18578	0.152172	74.0635	23.03671	3.505551	4.381157	0.7
-52	98.93	21.15105	0.154964	72.50615	22.55232	3.494802	4.289034	0.7
-52	98.93	21.13369	0.159475	70.34982	21.8816	3.489569	4.161478	0.7
-53	98.93	21.09896	0.160796	69.39146	21.58352	3.470552	4.104787	0.7
-53	98.93	21.0816	0.163036	67.59451	21.0246	3.427765	3.99849	0.7
-53	98.93	21.0295	0.171371	63.88083	19.8695	3.405063	3.778811	0.6
-53	98.93	20.99478	0.177204	61.9641	19.27331	3.415315	3.665429	0.6
-54	98.93	20.96005	0.176771	62.44328	19.42236	3.433307	3.693774	0.6
-54	98.93	20.94268	0.178767	61.8443	19.23605	3.438774	3.658342	0.6
-54	98.93	20.90796	0.18202	60.76614	18.9007	3.4403	3.594564	0.6
-55	98.93	20.89059	0.18219	60.40675	18.78891	3.42316	3.573305	0.6
-55	98.93	20.87323	0.178978	61.12552	19.01248	3.402818	3.615823	0.6
-55	98.93	20.8385	0.172017	63.04226	19.60867	3.37302	3.729206	0.6
-56	98.93	20.80377	0.165827	64.59961	20.09306	3.331977	3.82133	0.7
-56	98.93	20.76904	0.163019	65.0788	20.24212	3.299845	3.849676	0.7
-56	98.93	20.73431	0.166339	63.64124	19.79497	3.292668	3.764638	0.7
-56	98.93	20.71695	0.16127	65.55798	20.39115	3.288489	3.878021	0.7
-57	98.93	20.68222	0.158169	66.87573	20.80103	3.290068	3.955972	0.7
-57	98.93	20.64749	0.160724	66.15696	20.57746	3.307294	3.913453	0.7
-57	98.93	20.61276	0.169278	63.04226	19.60867	3.319312	3.729206	0.7
-58	98.93	20.57804	0.178192	60.40675	18.78892	3.348035	3.573305	0.6
-58	98.93	20.54331	0.183901	59.08899	18.37904	3.379924	3.495354	0.6
-58	98.93	20.50858	0.187823	58.49001	18.19274	3.417016	3.459922	0.6
-58	98.93	20.47385	0.1917	58.25042	18.11821	3.473266	3.445749	0.6
-59	98.93	20.43912	0.204837	56.33368	17.52203	3.589161	3.332366	0.5
-59	98.93	20.40439	0.228942	52.7398	16.40419	3.755614	3.119774	0.5
-60	98.93	20.36967	0.247097	50.46367	15.69622	3.878481	2.985131	0.4
-60	98.93	20.33494	0.256352	50.22408	15.6217	4.004646	2.970959	0.4
-60	98.93	20.30021	0.262186	50.70326	15.77075	4.134869	2.999304	0.4
-60	98.93	20.26548	0.267778	51.30224	15.95705	4.272939	3.034736	0.4
-61	98.93	20.19602	0.272908	51.90122	16.14336	4.405657	3.070168	0.4
-61	98.93	20.12657	0.283698	51.42204	15.9943	4.537555	3.041823	0.4
-61	98.93	20.05711	0.299347	50.10428	15.58443	4.665151	2.963872	0.4
-62	98.93	19.97029	0.316518	48.54693	15.10004	4.779428	2.871748	0.4
-62	98.93	19.90083	0.340561	46.27081	14.39208	4.901386	2.737107	0.3
-62	98.93	19.81401	0.367662	44.11448	13.72137	5.044818	2.609551	0.3
-62	98.93	19.76192	0.394565	42.31754	13.16244	5.193439	2.503255	0.3
-63	98.93	19.70983	0.414422	41.59876	12.93887	5.362157	2.460736	0.3
-63	98.93	19.65773	0.428474	41.71856	12.97614	5.559935	2.467823	0.3
-63	98.93	19.60564	0.448817	41.71856	12.97614	5.823913	2.467823	0.2
-64	98.93	19.53618	0.484664	40.99978	12.75257	6.180719	2.425304	0.2
-64	98.93	19.50146	0.536218	40.16121	12.49174	6.698294	2.375699	0.2
-64	98.93	19.46673	0.618748	39.32263	12.23091	7.567849	2.326094	0.2
-64	98.93	19.41463	0.742924	38.36426	11.93282	8.865176	2.269402	0.1
-65	98.93	19.36254	0.905221	37.4059	11.63473	10.532	2.212711	0.1
-65	98.93	19.31045	1.104616	36.08814	11.22486	12.39916	2.13476	0.1
-65	98.93	19.27572	1.34677	34.41099	10.7032	14.41474	2.03555	0.1
-65	98.93	19.24099	1.637755	32.61405	10.14428	16.61384	1.929254	0.1
-66	98.93	19.1889	1.992112	30.69731	9.548092	19.02087	1.815871	0.1
-66	98.93	19.13681	2.393639	28.78057	8.951908	21.42764	1.702488	0.0
-66	98.93	19.10208	2.799131	27.22322	8.467511	23.70167	1.610364	0.0
-67	98.93	19.04999	3.266343	25.42628	7.908592	25.83217	1.504068	0.0
-67	98.93	18.99789	3.758707	23.21006	7.219256	27.13507	1.372969	0.0

-67	98.93	18.91107	4.079514	21.38317	6.651019	27.13293	1.264902	0.0
-68	98.93	18.82425	4.280833	19.71351	6.13169	26.24874	1.166134	0.0
-68	98.93	18.73743	4.388899	18.20857	5.663594	24.85694	1.077111	0.0
-68	98.93	18.66797	4.400365	16.89081	5.253719	23.11828	0.99916	0.0
-69	98.93	18.58115	4.343583	15.71531	4.888091	21.23183	0.929625	0.0
-69	98.93	18.49433	4.273968	14.46494	4.499175	19.22933	0.85566	0.0
-69	98.93	18.42488	4.16422	13.28944	4.133547	17.213	0.786124	0.0
-70	98.93	18.35542	3.99913	12.27117	3.816827	15.26399	0.72589	0.0
-70	98.93	18.30333	3.804749	11.40265	3.546681	13.49423	0.674513	0.0
-70	98.93	18.25123	3.572865	10.74377	3.341744	11.9396	0.635538	0.0
-70	98.93	18.21651	3.367076	10.11484	3.146121	10.59323	0.598334	0.0
-71	98.93	18.18178	3.058694	9.785405	3.043652	9.3096	0.578847	0.0
-71	98.93	18.14705	2.777438	9.403555	2.924882	8.123678	0.556259	0.0
-71	98.93	18.09496	2.523859	9.036679	2.810769	7.093984	0.534556	0.0
-71	98.93	18.04286	2.325357	8.662316	2.694328	6.265274	0.512411	0.0
-72	98.93	17.97341	2.182934	8.265492	2.570899	5.612103	0.488937	0.1
-72	98.93	17.92131	2.085228	7.883642	2.452129	5.113247	0.46635	0.1
-72	98.93	17.88659	2.047212	7.419432	2.307741	4.724434	0.43889	0.1
-73	98.93	17.83449	2.002671	7.075018	2.200613	4.407104	0.418516	0.1
-73	98.93	17.76504	1.966553	6.685681	2.079515	4.089476	0.395485	0.1
-73	98.93	17.71294	1.910996	6.401165	1.991019	3.804829	0.378655	0.1
-74	98.93	17.66085	1.820999	6.213984	1.932798	3.519623	0.367582	0.1
-74	98.93	17.59139	1.727943	6.041777	1.879235	3.247211	0.357396	0.1
-74	98.93	17.5393	1.738331	5.517669	1.716216	2.983352	0.326393	0.1
-74	98.93	17.48721	1.756991	5.02351	1.562513	2.745321	0.297161	0.1
-75	98.93	17.43512	1.824199	4.521864	1.406481	2.565701	0.267487	0.1
-75	98.93	17.38302	1.916424	4.04268	1.257435	2.409779	0.239141	0.1
-75	98.93	17.33093	1.860672	3.907909	1.215516	2.261677	0.231169	0.1
-75	98.93	17.26147	1.760767	3.840524	1.194556	2.103335	0.227183	0.1
-76	98.93	17.20938	1.618283	3.840524	1.194557	1.933131	0.227183	0.1
-76	98.93	17.15729	1.454732	3.915396	1.217845	1.771638	0.231612	0.1
-76	98.93	17.12256	1.353896	3.825549	1.189899	1.610999	0.226297	0.1
-77	98.93	17.08783	1.280758	3.615906	1.124692	1.440458	0.213896	0.1
-77	98.93	17.03574	1.199769	3.49611	1.08743	1.304665	0.206809	0.1
-77	98.93	17.01838	1.180131	3.264005	1.015237	1.198112	0.193079	0.1
-77	98.93	17.00101	1.189645	3.001951	0.933727	1.110803	0.177578	0.1
-78	98.93	16.96628	1.153062	2.904617	0.903452	1.041736	0.17182	0.1
-78	98.93	16.94892	1.126426	2.769846	0.861533	0.970453	0.163848	0.1
-78	98.93	16.93155	1.082682	2.657537	0.8266	0.894945	0.157204	0.1
-78	98.93	16.93155	1.019145	2.575177	0.800983	0.816318	0.152332	0.1
-79	98.93	16.89683	0.947949	2.477843	0.770709	0.730592	0.146574	0.1
-79	98.93	16.87946	0.900731	2.305636	0.717145	0.645955	0.136388	0.1
-79	98.93	16.8621	0.806033	2.283174	0.710159	0.572412	0.135059	0.1
-80	98.93	16.84473	0.719337	2.245738	0.698514	0.502467	0.132845	0.2
-80	98.93	16.84473	0.678979	2.095993	0.651938	0.442652	0.123987	0.2
-80	98.93	16.82737	0.607657	2.10348	0.654266	0.397569	0.124429	0.2
-80	98.93	16.81001	0.578447	1.998659	0.621663	0.359599	0.118229	0.2
-81	98.93	16.81001	0.534237	1.968709	0.612347	0.327139	0.116457	0.2
-81	98.93	16.79264	0.507911	1.88635	0.58673	0.298007	0.111585	0.2
-81	98.93	16.77528	0.497392	1.766554	0.549469	0.273301	0.104499	0.2
-81	98.93	16.75791	0.47084	1.72163	0.535496	0.252133	0.101841	0.2
-82	98.93	16.74055	0.443955	1.699168	0.528509	0.234634	0.100513	0.3
-82	98.93	16.72318	0.43675	1.601834	0.498234	0.217604	0.094755	0.3
-82	98.93	16.70582	0.417684	1.55691	0.484261	0.202268	0.092098	0.3
-83	98.93	16.68846	0.410207	1.474551	0.458644	0.188139	0.087226	0.3
-83	98.93	16.68846	0.402886	1.377216	0.428369	0.172584	0.081468	0.3
-83	98.93	16.67109	0.390245	1.302344	0.405081	0.158081	0.077039	0.3
-83	98.93	16.65373	0.348864	1.324805	0.412068	0.143756	0.078368	0.3
-84	98.93	16.63636	0.313387	1.332293	0.414396	0.129866	0.078811	0.4
-84	98.93	16.619	0.291414	1.302344	0.405081	0.118046	0.077039	0.4
-84	98.93	16.60163	0.278697	1.25742	0.391108	0.109001	0.074382	0.4
-84	98.93	16.56691	0.263758	1.227471	0.381793	0.100701	0.07261	0.4
-85	98.93	16.54954	0.25387	1.197522	0.372477	0.094561	0.070838	0.4
-85	98.93	16.51481	0.246587	1.160086	0.360833	0.088977	0.068624	0.5
-85	98.93	16.49745	0.239652	1.107675	0.344531	0.082567	0.065523	0.5
-85	98.93	16.46272	0.230495	1.085213	0.337545	0.077802	0.064195	0.5
-86	98.93	16.46272	0.227835	1.032802	0.321243	0.07319	0.061094	0.5
-86	98.93	16.44536	0.225112	0.987879	0.30727	0.06917	0.058437	0.5
-86	98.93	16.42799	0.218945	0.95793	0.297955	0.065236	0.056665	0.5
-86	98.93	16.41063	0.218375	0.920494	0.28631	0.062523	0.054451	0.5
-87	98.93	16.39326	0.222392	0.853108	0.265351	0.059012	0.050465	0.5

-87	98.93	16.3759	0.229847	0.770749	0.239734	0.055102	0.045593	0.5
-87	98.93	16.3759	0.223069	0.755774	0.235076	0.052438	0.044707	0.5
-88	98.93	16.35854	0.200478	0.770749	0.239734	0.048061	0.045593	0.6
-88	98.93	16.34117	0.164413	0.853108	0.265351	0.043627	0.050465	0.7
-88	98.93	16.34117	0.131599	0.950443	0.295626	0.038904	0.056223	0.8
-88	98.93	16.32381	0.117479	0.942955	0.293297	0.034456	0.05578	0.9
-88	98.93	16.30644	0.103271	0.965417	0.300283	0.031011	0.057108	1.1
-88	98.93	16.28908	0.117409	0.950443	0.295626	0.034709	0.056223	0.9
-88	98.93	16.28908	0.123392	0.860596	0.26768	0.033029	0.050908	0.9
-88	98.93	16.27172	0.110394	0.913006	0.283982	0.03135	0.054008	1.0
-88	98.93	16.25435	0.103629	0.920494	0.28631	0.02967	0.054451	1.1
-88	98.93	16.23699	0.093698	0.883057	0.274666	0.025736	0.052236	1.2
-89	98.93	16.21962	0.098015	0.898032	0.279324	0.027378	0.053122	1.1
-89	98.93	16.21962	0.103002	0.868083	0.270008	0.027811	0.051351	1.1
-89	98.93	16.20226	0.111291	0.79321	0.24672	0.027458	0.046922	1.0
-89	98.93	16.18489	0.11133	0.778236	0.242062	0.026949	0.046036	1.0
-89	98.93	16.18489	0.10522	0.815672	0.253707	0.026695	0.04825	1.1
-89	98.93	16.18489	0.101101	0.860596	0.26768	0.027063	0.050908	1.1
-89	98.93	16.16753	0.096741	0.890545	0.276995	0.026797	0.052679	1.1
-89	98.93	16.16753	0.095149	0.890545	0.276995	0.026356	0.052679	1.2
-88	98.93	16.16753	0.091856	0.935468	0.290968	0.026727	0.055337	1.2
-88	98.93	16.16753	0.092813	0.942955	0.293297	0.027222	0.05578	1.2
-88	98.93	16.16753	0.100466	0.890545	0.276995	0.027829	0.052679	1.1
-88	98.93	16.16753	0.097573	0.935468	0.290968	0.028391	0.055337	1.1
-88	98.93	16.16753	0.092121	0.987879	0.30727	0.028306	0.058437	1.2
-88	98.93	16.16753	0.090481	1.017828	0.316585	0.028645	0.060209	1.2
-88	98.93	16.16753	0.090384	1.017828	0.316585	0.028614	0.060209	1.2
-88	98.93	16.16753	0.089708	1.04029	0.323572	0.029027	0.061537	1.2
-88	98.93	16.16753	0.093062	1.002853	0.311928	0.029029	0.059323	1.2
-88	98.93	16.15017	0.103624	0.920494	0.28631	0.029669	0.054451	1.1
-88	98.93	16.15017	0.103531	0.950443	0.295626	0.030606	0.056223	1.1
-88	98.93	16.15017	0.102708	0.965417	0.300283	0.030841	0.057108	1.1
-88	98.93	16.1328	0.105043	0.965417	0.300283	0.031543	0.057108	1.1
-88	98.93	16.1328	0.107458	0.935468	0.290968	0.031267	0.055337	1.0
-88	98.93	16.1328	0.104308	0.942955	0.293297	0.030593	0.05578	1.1
-88	98.93	16.11544	0.105297	0.920494	0.28631	0.030148	0.054451	1.1
-3	118.02	26.82915	0.094254	1332.042	414.3185	39.05129	66.25872	1.0
-3	118.02	26.82915	0.094112	1209.371	376.1628	35.40132	60.15679	1.0
-3	118.02	26.81178	0.151239	672.6846	209.2318	31.6439	33.46082	0.6
-4	118.02	26.79442	0.083009	1161.453	361.2583	29.98763	57.77325	1.1
-4	118.02	26.79442	0.052802	1916.647	596.154	31.47835	95.33827	1.8
-4	118.02	26.77706	0.108409	862.4417	268.2538	29.08105	42.89976	0.9
-5	118.02	26.75969	0.062628	1322.459	411.3376	25.76143	65.78204	1.5
-5	118.02	26.74233	0.077267	994.6965	309.3904	23.90582	49.47841	1.2
-5	118.02	26.72496	0.100004	745.5207	231.8867	23.18953	37.08385	1.0
-5	118.02	26.72496	0.095059	785.7722	244.4066	23.23312	39.08605	1.0
-5	118.02	26.7076	0.060965	1138.452	354.1041	21.58788	56.62912	1.6
-5	118.02	26.7076	0.083536	795.3558	247.3875	20.66586	39.56276	1.1
-5	118.02	26.69023	0.051827	1381.878	429.8192	22.27637	68.73767	1.8
-6	118.02	26.69023	0.095309	714.8528	222.3478	21.19185	35.55836	1.0
-6	118.02	26.69023	0.068628	885.4425	275.408	18.90083	44.04387	1.4
-6	118.02	26.67287	0.074319	803.0228	249.7722	18.56287	39.94413	1.3
-6	118.02	26.67287	0.045898	1186.37	369.0087	16.93689	59.01267	2.1
-6	118.02	26.67287	0.075765	722.5198	224.7326	17.02686	35.93974	1.3
-7	118.02	26.65551	0.085524	647.767	201.4815	17.23156	32.22137	1.1
-7	118.02	26.65551	0.072698	705.2692	219.3669	15.94763	35.08165	1.3
-7	118.02	26.65551	0.060759	780.0219	242.618	14.74114	38.80002	1.6
-8	118.02	26.65551	0.066431	722.5198	224.7326	14.92916	35.93974	1.4
-8	118.02	26.63814	0.084188	527.0126	163.922	13.8002	26.21477	1.1
-8	118.02	26.63814	0.059919	705.2692	219.367	13.14422	35.08165	1.6
-8	118.02	26.63814	0.056731	693.7687	215.7899	12.24196	34.50959	1.7
-8	118.02	26.63814	0.072838	532.7628	165.7106	12.06997	26.5008	1.3
-9	118.02	26.62078	0.035686	1071.366	333.2376	11.89193	53.29212	2.7
-9	118.02	26.62078	0.052881	709.1027	220.5593	11.6635	35.27234	1.8
-9	118.02	26.62078	0.070912	534.6795	166.3067	11.79314	26.59614	1.3
-9	118.02	26.62078	0.041465	927.6107	288.524	11.96354	46.14141	2.3
-10	118.02	26.62078	0.052433	718.6863	223.5402	11.72084	35.74905	1.8
-10	118.02	26.62078	0.063476	588.3481	182.9998	11.61614	29.26574	1.5
-10	118.02	26.62078	0.063999	603.6821	187.7693	12.017	30.02849	1.5
-11	118.02	26.62078	0.053882	709.1027	220.5593	11.88413	35.27234	1.8
-11	118.02	26.62078	0.052672	709.1027	220.5593	11.61729	35.27234	1.8

-11	118.02	26.62078	0.063241	611.349	190.154	12.02543	30.40985	1.5
-11	118.02	26.62078	0.061475	586.4315	182.4036	11.21325	29.1704	1.5
-11	118.02	26.62078	0.055984	634.3499	197.3082	11.0461	31.55397	1.7
-12	118.02	26.60341	0.070009	507.8452	157.9602	11.05861	25.26135	1.4
-12	118.02	26.60341	0.06005	550.0134	171.0762	10.27319	27.35888	1.6
-12	118.02	26.60341	0.057707	553.8469	172.2685	9.941124	27.54957	1.6
-12	118.02	26.60341	0.057081	550.0134	171.0761	9.765118	27.35888	1.7
-12	118.02	26.62078	0.056848	559.5971	174.0571	9.894761	27.8356	1.7
-12	118.02	26.60341	0.050434	640.1001	199.0967	10.04115	31.84	1.9
-13	118.02	26.60341	0.05768	574.931	178.8266	10.31474	28.59834	1.6
-13	118.02	26.62078	0.061785	532.7628	165.7106	10.23843	26.5008	1.5
-13	118.02	26.60341	0.053654	592.1816	184.1922	9.882734	29.45642	1.8
-14	118.02	26.60341	0.052411	584.5147	181.8074	9.528706	29.07506	1.8
-14	118.02	26.60341	0.053953	567.264	176.4418	9.519578	28.21697	1.8
-14	118.02	26.60341	0.053335	582.598	181.2113	9.66498	28.97972	1.8
-15	118.02	26.60341	0.055025	596.0151	185.3846	10.20078	29.64711	1.7
-15	118.02	26.56869	0.056001	622.8494	193.7311	10.8492	30.98191	1.7
-15	118.02	26.53396	0.069279	525.0958	163.3258	11.31503	26.11943	1.4
-15	118.02	26.4645	0.074918	481.0109	149.6136	11.20882	23.92655	1.3
-16	118.02	26.41241	0.072483	484.8443	150.806	10.93087	24.11723	1.3
-16	118.02	26.36031	0.066381	509.7619	158.5564	10.52508	25.35669	1.4
-16	118.02	26.30822	0.062141	527.0126	163.922	10.18627	26.21477	1.5
-16	118.02	26.25613	0.06321	515.5121	160.3449	10.1354	25.64271	1.5
-16	118.02	26.20404	0.059929	559.5971	174.0571	10.43099	27.8356	1.6
-16	118.02	26.16931	0.060049	567.264	176.4418	10.59512	28.21697	1.6
-17	118.02	26.11722	0.075539	438.8427	136.4976	10.31088	21.82901	1.3
-17	118.02	26.08249	0.076476	410.0916	127.5549	9.754832	20.39886	1.2
-17	118.02	26.0304	0.076622	390.9242	121.5931	9.316715	19.44544	1.2
-17	118.02	25.99567	0.066969	438.8427	136.4976	9.141159	21.82901	1.4
-17	118.02	25.96094	0.058781	498.2615	154.9792	9.109757	24.78463	1.6
-18	118.02	25.92621	0.057773	507.8452	157.9602	9.125806	25.26135	1.6
-18	118.02	25.89148	0.060415	500.1783	155.5755	9.399093	24.87998	1.6
-18	118.02	25.85675	0.062437	496.3448	154.383	9.63922	24.68929	1.5
-19	118.02	25.80466	0.068379	454.1765	141.2671	9.659676	22.59175	1.4
-19	118.02	25.76993	0.070717	423.5087	131.7281	9.315432	21.06626	1.3
-19	118.02	25.71784	0.070587	412.0083	128.1511	9.045786	20.49421	1.3
-19	118.02	25.68311	0.07174	394.7577	122.7855	8.80867	19.63612	1.3
-20	118.02	25.63102	0.066962	417.7585	129.9396	8.70099	20.78023	1.4
-20	118.02	25.59629	0.068587	400.5079	124.574	8.544156	19.92215	1.4
-20	118.02	25.5442	0.070805	378.3456	117.6806	8.332429	18.81975	1.3
-21	118.02	25.47474	0.070241	373.7934	116.2647	8.166515	18.59331	1.4
-21	118.02	25.42265	0.072243	355.3448	110.5264	7.98479	17.67564	1.3
-21	118.02	25.37056	0.062125	402.9038	125.3192	7.785435	20.04133	1.5
-22	118.02	25.3011	0.0654	368.1629	114.5134	7.489156	18.31324	1.5
-22	118.02	25.24901	0.061975	379.5436	118.0532	7.316322	18.87934	1.5
-22	118.02	25.19691	0.064934	355.4645	110.5637	7.179343	17.68159	1.5
-23	118.02	25.16218	0.065228	355.2249	110.4892	7.206991	17.66967	1.5
-23	118.02	25.11009	0.061486	388.5283	120.8478	7.430482	19.32626	1.5
-23	118.02	25.07536	0.062313	392.4815	122.0775	7.607006	19.5229	1.5
-24	118.02	25.04064	0.066159	373.5538	116.1901	7.687064	18.58139	1.4
-24	118.02	25.00591	0.068516	356.4229	110.8618	7.595778	17.72926	1.4
-24	118.02	24.95381	0.072191	333.5419	103.7449	7.48945	16.59111	1.3
-24	118.02	24.91909	0.071813	325.3957	101.2111	7.268322	16.1859	1.3
-25	118.02	24.88436	0.070039	330.9063	102.9251	7.208767	16.46001	1.4
-25	118.02	24.84963	0.068843	338.8129	105.3844	7.255004	16.8533	1.4
-25	118.02	24.8149	0.070376	331.9845	103.2605	7.267009	16.51364	1.4
-26	118.02	24.78017	0.077283	292.332	90.92694	7.027093	14.54124	1.2
-26	118.02	24.74544	0.082488	257.8307	80.19566	6.61519	12.82507	1.2
-26	118.02	24.71072	0.076921	260.1068	80.90361	6.22315	12.93829	1.2
-27	118.02	24.65862	0.07566	252.4399	78.5189	5.940721	12.55692	1.3
-27	118.02	24.60653	0.069249	270.5291	84.14536	5.827019	13.45672	1.4
-27	118.02	24.55444	0.065788	288.2589	89.66009	5.89858	14.33864	1.4
-28	118.02	24.50235	0.061983	311.9786	97.03784	6.014697	15.51851	1.5
-28	118.02	24.45025	0.063084	308.7441	96.03174	6.058035	15.35762	1.5
-28	118.02	24.3808	0.068547	280.9514	87.38712	5.990103	13.97515	1.4
-29	118.02	24.29397	0.069757	269.0916	83.69826	5.838566	13.38521	1.4
-29	118.02	24.20715	0.069085	267.7738	83.2884	5.753972	13.31966	1.4
-29	118.02	24.12033	0.069838	263.8205	82.05877	5.730834	13.12302	1.4
-29	118.02	24.01615	0.069815	265.7373	82.65492	5.770535	13.21836	1.4
-30	118.02	23.92933	0.074499	251.2419	78.14632	5.821822	12.49733	1.3
-30	118.02	23.87723	0.077961	240.8197	74.90457	5.839655	11.97891	1.2

-30	118.02	23.80778	0.07806	241.6582	75.1654	5.86742	12.02061	1.2
-31	118.02	23.75568	0.077897	239.3821	74.45742	5.800006	11.9074	1.2
-31	118.02	23.72096	0.074745	246.8095	76.76763	5.738001	12.27685	1.3
-31	118.02	23.6515	0.074983	249.0856	77.47557	5.809376	12.39007	1.3
-32	118.02	23.61677	0.074983	256.7526	79.86029	5.988164	12.77144	1.3
-32	118.02	23.56468	0.076628	257.8307	80.19567	6.145226	12.82507	1.2
-32	118.02	23.49522	0.081355	245.2521	76.28325	6.206004	12.19938	1.2
-33	118.02	23.44313	0.089492	218.897	68.08571	6.09314	10.88842	1.1
-33	118.02	23.39104	0.092473	205.8392	64.02424	5.920512	10.2389	1.0
-33	118.02	23.33894	0.096668	192.1825	59.77644	5.778497	9.559583	1.0
-33	118.02	23.26949	0.103922	176.1298	54.78342	5.693203	8.761086	0.9
-34	118.02	23.23476	0.096696	187.0312	58.17421	5.625197	9.303346	1.0
-34	118.02	23.20003	0.090658	197.0941	61.30414	5.557719	9.803897	1.0
-34	118.02	23.14794	0.085977	205.36	63.87521	5.491813	10.21506	1.1
-35	118.02	23.11321	0.084541	205.36	63.8752	5.400099	10.21506	1.1
-35	118.02	23.07848	0.083855	204.0423	63.4653	5.321877	10.14952	1.1
-35	118.02	23.02639	0.08417	200.4484	62.34745	5.247802	9.970747	1.1
-35	118.02	22.99166	0.086405	193.8596	60.2981	5.210041	9.643006	1.1
-36	118.02	22.95693	0.089287	187.8698	58.43503	5.217515	9.34506	1.1
-36	118.02	22.9222	0.089812	188.948	58.77039	5.278301	9.398692	1.1
-36	118.02	22.88747	0.092175	189.547	58.95671	5.434344	9.428488	1.0
-36	118.02	22.87011	0.093554	192.9012	59.99999	5.613261	9.595333	1.0
-37	118.02	22.83538	0.095463	194.818	60.59617	5.784709	9.690679	1.0
-37	118.02	22.78329	0.101092	186.1927	57.91336	5.854572	9.261637	0.9
-37	118.02	22.74856	0.107007	174.812	54.37349	5.818366	8.695536	0.9
-38	118.02	22.69647	0.112145	163.5512	50.87096	5.704944	8.135399	0.8
-38	118.02	22.60965	0.112068	160.0771	49.79035	5.57988	7.96259	0.8
-38	118.02	22.54019	0.109227	162.5928	50.57288	5.523919	8.087726	0.9
-39	118.02	22.47073	0.11011	161.6345	50.27477	5.53573	8.040058	0.9
-39	118.02	22.40128	0.1115	160.0771	49.7904	5.551615	7.96259	0.9
-39	118.02	22.33182	0.115861	154.0873	47.92733	5.552885	7.664644	0.8
-39	118.02	22.26236	0.118924	149.6548	46.54863	5.53573	7.444161	0.8
-40	118.02	22.21027	0.123058	143.7848	44.72284	5.503499	7.152174	0.8
-40	118.02	22.15818	0.127584	138.0346	42.9343	5.477717	6.866147	0.7
-40	118.02	22.10609	0.130134	135.0397	42.00277	5.465992	6.717174	0.7
-41	118.02	22.07136	0.130394	135.1595	42.04004	5.481752	6.723133	0.7
-41	118.02	22.01926	0.128369	137.3158	42.71072	5.482728	6.830392	0.7
-41	118.02	21.96717	0.130306	134.2011	41.74194	5.439221	6.67546	0.7
-41	118.02	21.91508	0.133026	130.0083	40.43778	5.379268	6.466901	0.7
-42	118.02	21.86299	0.134381	126.7738	39.43171	5.298873	6.30601	0.7
-42	118.02	21.81089	0.134654	124.2581	38.64922	5.204256	6.180873	0.7
-42	118.02	21.77617	0.135237	121.2632	37.71768	5.100814	6.0319	0.7
-42	118.02	21.72407	0.131327	121.9819	37.94126	4.982697	6.06765	0.7
-43	118.02	21.67198	0.127784	122.3413	38.05305	4.86257	6.085527	0.7
-43	118.02	21.63725	0.123652	123.1799	38.31386	4.737597	6.127241	0.8
-43	118.02	21.60252	0.123372	120.9038	37.6059	4.639512	6.014023	0.8
-44	118.02	21.55043	0.124162	118.0287	36.71163	4.5582	5.871009	0.8
-44	118.02	21.5157	0.128523	112.8774	35.10941	4.51237	5.614772	0.7
-44	118.02	21.46361	0.132758	108.6846	33.80525	4.487901	5.406213	0.7
-44	118.02	21.42888	0.139799	103.2938	32.1285	4.491526	5.138062	0.7
-45	118.02	21.41152	0.141448	101.976	31.71862	4.486532	5.072512	0.7
-45	118.02	21.39415	0.140362	102.4552	31.86768	4.473014	5.096349	0.7
-45	118.02	21.35942	0.133953	106.0491	32.98548	4.418505	5.275117	0.7
-45	118.02	21.3247	0.129212	107.846	33.54443	4.334342	5.364499	0.7
-46	118.02	21.30733	0.129191	106.0491	32.98551	4.261421	5.275117	0.7
-46	118.02	21.28997	0.131681	103.0542	32.05396	4.220881	5.126144	0.7
-46	118.02	21.2726	0.136071	98.98109	30.78707	4.189228	4.923539	0.7
-47	118.02	21.25524	0.138547	95.7466	29.78103	4.126073	4.762648	0.7
-47	118.02	21.23787	0.139498	93.82986	29.18483	4.07122	4.667305	0.7
-47	118.02	21.20315	0.140878	92.5121	28.77497	4.053748	4.601757	0.7
-47	118.02	21.16842	0.139428	93.35068	29.0358	4.04839	4.64347	0.7
-48	118.02	21.11633	0.138325	93.71006	29.14757	4.031846	4.661346	0.7
-48	118.02	21.0816	0.138453	94.06945	29.25936	4.051032	4.679223	0.7
-48	118.02	21.04687	0.143909	92.6319	28.81223	4.146333	4.607716	0.7
-49	118.02	20.99478	0.155348	88.31924	27.47081	4.267531	4.393195	0.6
-49	118.02	20.96005	0.172038	82.92841	25.79406	4.437556	4.125043	0.6
-49	118.02	20.92532	0.183992	79.93351	24.86251	4.574491	3.97607	0.5
-49	118.02	20.89059	0.183701	79.33453	24.67621	4.533036	3.946275	0.5
-50	118.02	20.87323	0.175347	79.09494	24.60169	4.313843	3.934358	0.5
-50	118.02	20.8385	0.172179	75.74065	23.55837	4.056252	3.767508	0.6
-50	118.02	20.82113	0.164097	74.42289	23.1485	3.798587	3.701959	0.6

-50	118.02	20.80377	0.154372	73.82391	22.96218	3.544727	3.672165	0.6
-51	118.02	20.78641	0.153865	69.27166	21.54626	3.315224	3.445726	0.6
-51	118.02	20.78641	0.155498	65.31839	20.31664	3.159193	3.249081	0.6
-51	118.02	20.76904	0.158888	62.44328	19.42236	3.085981	3.106067	0.6
-51	118.02	20.75168	0.193231	51.54184	16.03157	3.097803	2.563805	0.5
-52	118.02	20.73431	0.227021	44.83325	13.94493	3.165787	2.230105	0.4
-52	118.02	20.69958	0.192307	53.09918	16.51597	3.176129	2.641271	0.5
-52	118.02	20.68222	0.153701	64.47981	20.0558	3.082588	3.207369	0.6
-53	118.02	20.66486	0.14043	67.59451	21.0246	2.952489	3.362301	0.7
-53	118.02	20.63013	0.141702	64.24022	19.98128	2.831391	3.195451	0.7
-53	118.02	20.5954	0.136999	64.36002	20.01854	2.742514	3.20141	0.7
-53	118.02	20.57804	0.135448	63.28185	19.68319	2.666056	3.147779	0.7
-54	118.02	20.56067	0.13992	59.92756	18.63987	2.608092	2.98093	0.7
-54	118.02	20.54331	0.147928	55.97429	17.41024	2.575464	2.784285	0.6
-54	118.02	20.50858	0.154326	54.41694	16.92585	2.612095	2.706819	0.6
-54	118.02	20.47385	0.154803	56.33368	17.52203	2.712468	2.802162	0.6
-55	118.02	20.43912	0.15419	58.01082	18.04369	2.782149	2.885587	0.6
-55	118.02	20.38703	0.157799	57.29205	17.82012	2.811998	2.849833	0.6
-55	118.02	20.33494	0.164376	55.25551	17.18668	2.825084	2.748531	0.6
-56	118.02	20.30021	0.171717	53.33878	16.5905	2.848862	2.653189	0.6
-56	118.02	20.26548	0.176692	51.78143	16.10609	2.845822	2.575723	0.5
-56	118.02	20.23075	0.172773	52.5002	16.32966	2.821321	2.611476	0.6
-56	118.02	20.19602	0.168007	53.21898	16.55323	2.781058	2.64723	0.6
-57	118.02	20.17866	0.167062	53.21898	16.55323	2.765411	2.64723	0.6
-57	118.02	20.14393	0.173232	51.30224	15.95705	2.764273	2.551887	0.5
-57	118.02	20.12657	0.179077	49.38551	15.36087	2.750783	2.456545	0.5
-57	118.02	20.1092	0.17631	49.6251	15.43539	2.721415	2.468462	0.5
-58	118.02	20.07447	0.174913	49.14591	15.28634	2.673772	2.444626	0.5
-58	118.02	20.03975	0.175433	48.06775	14.951	2.622895	2.390996	0.5
-58	118.02	20.02238	0.180631	46.15101	14.35481	2.592927	2.295653	0.5
-59	118.02	20.00502	0.181869	45.79162	14.24303	2.590361	2.277777	0.5
-59	118.02	19.97029	0.178995	46.5104	14.4666	2.589447	2.31353	0.5
-59	118.02	19.95292	0.181101	45.91142	14.28029	2.586171	2.283736	0.5
-59	118.02	19.9182	0.192109	43.3957	13.4978	2.593054	2.158598	0.5
-60	118.02	19.90083	0.208709	40.16121	12.49174	2.607135	1.997708	0.5
-60	118.02	19.88347	0.22216	38.00488	11.82104	2.626161	1.890447	0.4
-60	118.02	19.8661	0.219575	38.48406	11.97008	2.628325	1.914282	0.4
-61	118.02	19.8661	0.207665	40.04141	12.45448	2.586364	1.991748	0.5
-61	118.02	19.84874	0.196968	41.11957	12.78983	2.519188	2.045379	0.5
-61	118.02	19.83138	0.192031	40.99978	12.75257	2.448888	2.03942	0.5
-61	118.02	19.81401	0.192776	39.68202	12.3427	2.379372	1.973872	0.5
-62	118.02	19.79665	0.190549	39.08304	12.15639	2.316393	1.944077	0.5
-62	118.02	19.79665	0.18449	39.56223	12.30543	2.270231	1.967913	0.5
-62	118.02	19.77928	0.184833	38.96325	12.11913	2.240015	1.938118	0.5
-62	118.02	19.76192	0.188879	37.88508	11.78378	2.225707	1.884488	0.5
-62	118.02	19.76192	0.194756	36.80692	11.44842	2.229644	1.830858	0.5
-63	118.02	19.74455	0.200416	35.96834	11.18759	2.242171	1.789145	0.5
-63	118.02	19.72719	0.196739	36.80692	11.44842	2.252346	1.830858	0.5
-63	118.02	19.70983	0.197851	36.92671	11.48568	2.272453	1.836816	0.5
-64	118.02	19.69246	0.204883	36.20793	11.26212	2.307415	1.801063	0.5
-64	118.02	19.65773	0.217408	34.77038	10.81498	2.351266	1.729556	0.4
-64	118.02	19.65773	0.23529	32.97344	10.25606	2.413149	1.640172	0.4
-64	118.02	19.64037	0.253304	31.53588	9.808923	2.484643	1.568665	0.4
-65	118.02	19.623	0.268408	31.0567	9.659878	2.592784	1.544829	0.4
-65	118.02	19.623	0.282076	31.1765	9.697139	2.735334	1.550788	0.3
-65	118.02	19.58828	0.296104	31.29629	9.734401	2.882392	1.556747	0.3
-65	118.02	19.57091	0.310116	31.65568	9.846184	3.05346	1.574624	0.3
-65	118.02	19.55355	0.329324	31.65568	9.846183	3.242584	1.574624	0.3
-66	118.02	19.51882	0.358559	31.1765	9.697138	3.476996	1.550788	0.3
-66	118.02	19.50146	0.397503	30.57752	9.510831	3.780587	1.520994	0.2
-66	118.02	19.46673	0.436848	30.45772	9.473569	4.138506	1.515034	0.2
-67	118.02	19.44936	0.477662	30.21813	9.39905	4.489573	1.503117	0.2
-67	118.02	19.41463	0.52477	29.37955	9.138215	4.795459	1.461404	0.2
-67	118.02	19.37991	0.570833	28.30139	8.802866	5.024964	1.407774	0.2
-67	118.02	19.36254	0.613905	27.10343	8.430253	5.175373	1.348185	0.2
-68	118.02	19.34518	0.639866	26.38465	8.206686	5.251176	1.312431	0.1
-68	118.02	19.32781	0.658847	25.66588	7.983115	5.259652	1.276678	0.1
-68	118.02	19.31045	0.688746	24.34812	7.573239	5.216037	1.211129	0.1
-68	118.02	19.27572	0.733778	22.57364	7.021306	5.15208	1.122863	0.1
-69	118.02	19.25836	0.765303	21.34573	6.639377	5.081132	1.061784	0.1
-69	118.02	19.22363	0.779764	20.67936	6.432111	5.015529	1.028637	0.1

-69	118.02	19.20626	0.778076	20.46223	6.364575	4.95212	1.017837	0.1
-69	118.02	19.1889	0.75114	20.85906	6.488002	4.873401	1.037576	0.1
-70	118.02	19.15417	0.72608	21.15855	6.581154	4.778447	1.052473	0.1
-70	118.02	19.13681	0.710161	21.18101	6.588144	4.678642	1.05359	0.1
-70	118.02	19.11944	0.711873	20.67936	6.43211	4.578846	1.028637	0.1
-71	118.02	19.10208	0.725995	19.79587	6.157308	4.470172	0.98469	0.1
-71	118.02	19.06735	0.717863	19.5413	6.078128	4.36326	0.972028	0.1
-71	118.02	19.04999	0.712304	19.17443	5.964014	4.248189	0.953779	0.1
-71	118.02	19.03262	0.715188	18.67278	5.807981	4.1538	0.928825	0.1
-72	118.02	19.01526	0.748674	17.75185	5.521535	4.13383	0.883016	0.1
-72	118.02	18.98053	0.799276	16.98815	5.283993	4.223367	0.845028	0.1
-72	118.02	18.92844	0.854078	16.39665	5.100013	4.355808	0.815606	0.1
-72	118.02	18.89371	0.922573	15.85008	4.93001	4.548295	0.788418	0.1
-73	118.02	18.84162	1.006352	15.21367	4.732059	4.762117	0.756762	0.1
-73	118.02	18.78952	1.100984	14.35263	4.464245	4.915063	0.713932	0.1
-73	118.02	18.73743	1.212199	13.39426	4.166152	5.050205	0.66626	0.1
-73	118.02	18.68534	1.307405	12.7279	3.958885	5.175865	0.633114	0.1
-74	118.02	18.63325	1.384555	12.34605	3.840114	5.316849	0.61412	0.1
-74	118.02	18.56379	1.471413	12.03158	3.742301	5.506471	0.598477	0.1
-74	118.02	18.5117	1.570718	11.69466	3.637507	5.713498	0.581718	0.1
-74	118.02	18.4596	1.673268	11.36522	3.535037	5.915065	0.565331	0.1
-75	118.02	18.42488	1.780015	10.96839	3.411609	6.072715	0.545592	0.1
-75	118.02	18.39015	1.876005	10.54162	3.278864	6.151166	0.524364	0.1
-75	118.02	18.35542	1.945881	10.13731	3.153107	6.135571	0.504252	0.0
-76	118.02	18.32069	1.938736	9.905201	3.080914	5.973078	0.492707	0.0
-76	118.02	18.2686	1.896361	9.620686	2.992418	5.674704	0.478554	0.1
-76	118.02	18.21651	1.86489	9.171451	2.852689	5.31995	0.456208	0.1
-76	118.02	18.18178	1.804141	8.639855	2.68734	4.84834	0.429766	0.1
-77	118.02	18.16441	1.695155	8.16067	2.538294	4.302803	0.40593	0.1
-77	118.02	18.12968	1.53982	7.853693	2.442812	3.761491	0.39066	0.1
-77	118.02	18.11232	1.373428	7.599126	2.363633	3.24628	0.377997	0.1
-77	118.02	18.07759	1.226666	7.322098	2.277465	2.793689	0.364217	0.1
-78	118.02	18.04286	1.109253	6.947735	2.161024	2.397123	0.345596	0.1
-78	118.02	18.00813	0.991504	6.685681	2.079514	2.061847	0.332561	0.1
-78	118.02	17.99077	0.899896	6.356242	1.977045	1.779135	0.316174	0.1
-78	118.02	17.95604	0.799694	6.243933	1.942113	1.553096	0.310587	0.1
-79	118.02	17.93868	0.733295	6.064239	1.886221	1.383156	0.301649	0.1
-79	118.02	17.90395	0.638136	6.154086	1.914167	1.221499	0.306118	0.1
-79	118.02	17.86922	0.575979	6.161573	1.916496	1.103862	0.30649	0.2
-80	118.02	17.83449	0.524626	6.16906	1.918825	1.006665	0.306863	0.2
-80	118.02	17.79976	0.483902	6.161573	1.916495	0.927396	0.30649	0.2
-80	118.02	17.76504	0.458581	6.03429	1.876906	0.860714	0.300159	0.2
-80	118.02	17.73031	0.427028	6.064239	1.886221	0.80547	0.301649	0.2
-81	118.02	17.71294	0.406342	5.981879	1.860604	0.756042	0.297552	0.2
-81	118.02	17.67822	0.390823	5.86957	1.825671	0.713513	0.291965	0.2
-81	118.02	17.64349	0.381735	5.667414	1.762792	0.672919	0.28191	0.2
-81	118.02	17.60876	0.371233	5.517669	1.716216	0.637117	0.274461	0.3
-82	118.02	17.57403	0.362583	5.300539	1.648679	0.597783	0.263661	0.3
-82	118.02	17.5393	0.352999	5.113357	1.590459	0.56143	0.25435	0.3
-82	118.02	17.52194	0.342103	4.94115	1.536896	0.525776	0.245784	0.3
-82	118.02	17.50457	0.335512	4.72402	1.46936	0.492988	0.234983	0.3
-83	118.02	17.46984	0.327064	4.581762	1.425111	0.466102	0.227907	0.3
-83	118.02	17.45248	0.320126	4.42453	1.376206	0.440559	0.220086	0.3
-83	118.02	17.41775	0.309141	4.34217	1.350588	0.417522	0.215989	0.3
-84	118.02	17.40039	0.300925	4.222373	1.313327	0.395213	0.21003	0.3
-84	118.02	17.36566	0.280838	4.304734	1.338945	0.376026	0.214127	0.3
-84	118.02	17.33093	0.267232	4.312221	1.341273	0.358432	0.214499	0.4
-84	118.02	17.2962	0.250409	4.409555	1.371548	0.343447	0.219341	0.4
-84	118.02	17.26147	0.238341	4.446991	1.383192	0.329672	0.221203	0.4
-85	118.02	17.24411	0.230514	4.409555	1.371548	0.316161	0.219341	0.4
-85	118.02	17.19202	0.22314	4.394581	1.366891	0.305008	0.218596	0.4
-85	118.02	17.13993	0.223007	4.267297	1.3273	0.295997	0.212265	0.4
-86	118.02	17.07047	0.216147	4.304734	1.338944	0.289409	0.214127	0.4
-86	118.02	17.01838	0.217614	4.192425	1.304012	0.283772	0.208541	0.4
-86	118.02	16.94892	0.216609	4.140014	1.28771	0.278929	0.205933	0.4
-86	118.02	16.89683	0.217702	4.012731	1.24812	0.271718	0.199602	0.4
-87	118.02	16.81001	0.218287	3.87796	1.206201	0.263298	0.192898	0.4
-87	118.02	16.74055	0.217191	3.758164	1.168939	0.253883	0.186939	0.4
-87	118.02	16.68846	0.221057	3.570982	1.110718	0.245532	0.177629	0.4
-87	118.02	16.619	0.216334	3.511084	1.092088	0.236255	0.174649	0.4
-88	118.02	16.54954	0.212258	3.406263	1.059484	0.224883	0.169435	0.4

-88	118.02	16.49745	0.20787	3.308928	1.029209	0.213941	0.164593	0.5
-88	118.02	16.46272	0.203782	3.219081	1.001263	0.204039	0.160124	0.5
-88	118.02	16.41063	0.204968	3.061849	0.952358	0.195203	0.152303	0.5
-89	118.02	16.35854	0.206207	2.904617	0.903452	0.186298	0.144482	0.5
-89	118.02	16.32381	0.192511	2.972002	0.924412	0.17796	0.147834	0.5
-89	118.02	16.28908	0.182337	2.964515	0.922083	0.16813	0.147462	0.5
-89	118.02	16.25435	0.169675	2.986976	0.929069	0.15764	0.148579	0.6
-90	118.02	16.23699	0.198635	2.927078	0.910438	0.180845	0.145599	0.5
-90	118.02	16.20226	0.147001	3.076823	0.957015	0.140682	0.153048	0.6
-90	118.02	16.16753	0.125484	3.41375	1.061813	0.13324	0.169807	0.8
-90	118.02	16.15017	0.123959	3.368826	1.04784	0.12989	0.167573	0.8
-90	118.02	16.11544	0.121883	3.383801	1.052498	0.128281	0.168318	0.8
-90	118.02	16.08071	0.119066	3.391288	1.054827	0.125594	0.16869	0.8
-2	146.85	26.75969	0.115864	337.8545	105.0863	12.17573	22.04863	0.6
-2	146.85	26.77706	0.118614	299.999	93.31168	11.06809	19.57816	0.6
-3	146.85	26.75969	0.110381	297.9624	92.67819	10.22991	19.44525	0.6
-3	146.85	26.77706	0.103868	290.4153	90.33076	9.38244	18.95272	0.7
-3	146.85	26.77706	0.093014	287.4203	89.39921	8.315335	18.75726	0.8
-3	146.85	26.75969	0.092203	259.7475	80.79187	7.449227	16.95131	0.8
-3	146.85	26.75969	0.090839	236.1476	73.45136	6.672266	15.41117	0.8
-4	146.85	26.75969	0.084523	234.4705	72.92973	6.164268	15.30172	0.8
-4	146.85	26.77706	0.084541	218.298	67.89941	5.740308	14.24629	0.8
-4	146.85	26.75969	0.073905	230.5172	71.70009	5.299029	15.04372	0.9
-4	146.85	26.75969	0.073833	209.7925	65.25387	4.817858	13.69121	0.9
-5	146.85	26.75969	0.073259	190.5053	59.25478	4.340969	12.43252	1.0
-5	146.85	26.75969	0.070081	183.3176	57.01909	3.995961	11.96344	1.0
-5	146.85	26.75969	0.066581	179.6039	55.86399	3.719476	11.72108	1.1
-6	146.85	26.75969	0.061829	180.0831	56.01304	3.463205	11.75236	1.1
-6	146.85	26.75969	0.059397	178.4059	55.49138	3.296041	11.6429	1.2
-6	146.85	26.75969	0.062813	161.2751	50.163	3.150898	10.52493	1.1
-7	146.85	26.75969	0.060101	161.6345	50.27479	3.021569	10.54839	1.2
-7	146.85	26.75969	0.054195	173.3745	53.9264	2.92253	11.31455	1.3
-7	146.85	26.75969	0.052108	175.0516	54.44806	2.837178	11.424	1.3
-7	146.85	26.75969	0.049704	179.1247	55.71494	2.769276	11.68981	1.4
-8	146.85	26.74233	0.04701	185.4739	57.6898	2.712001	12.10416	1.5
-8	146.85	26.75969	0.04999	168.7024	52.4732	2.623149	11.00964	1.4
-8	146.85	26.75969	0.050341	164.0304	51.02001	2.568377	10.70474	1.4
-8	146.85	26.75969	0.049778	161.874	50.3493	2.506311	10.56402	1.4
-9	146.85	26.75969	0.054619	143.1859	44.53654	2.432554	9.344417	1.3
-9	146.85	26.75969	0.053998	142.2275	44.23843	2.388802	9.281871	1.3
-9	146.85	26.75969	0.053756	141.2691	43.94034	2.36204	9.219325	1.3
-10	146.85	26.74233	0.052499	143.0661	44.49927	2.336161	9.336599	1.3
-10	146.85	26.75969	0.053663	137.4356	42.74798	2.293974	8.969148	1.3
-10	146.85	26.75969	0.05096	142.4671	44.31295	2.258186	9.297508	1.4
-11	146.85	26.74233	0.049478	142.9463	44.462	2.199876	9.328781	1.4
-11	146.85	26.75969	0.047513	144.6234	44.98367	2.137302	9.438229	1.5
-11	146.85	26.74233	0.046202	145.5818	45.28175	2.092117	9.500775	1.5
-12	146.85	26.74233	0.052603	153.3685	47.70375	2.509358	10.00894	1.3
-12	146.85	26.74233	0.045194	148.9361	46.32508	2.093612	9.719679	1.6
-12	146.85	26.74233	0.044094	154.3269	48.00184	2.116606	10.07149	1.6
-13	146.85	26.74233	0.044286	154.4467	48.03909	2.12748	10.07931	1.6
-13	146.85	26.74233	0.04751	143.3056	44.57379	2.117706	9.352229	1.5
-13	146.85	26.74233	0.047302	142.7067	44.38748	2.099635	9.313144	1.5
-14	146.85	26.74233	0.048436	137.196	42.67345	2.06695	8.953512	1.4
-14	146.85	26.74233	0.047805	137.3158	42.71072	2.041804	8.96133	1.5
-14	146.85	26.74233	0.045822	142.9463	44.462	2.03734	9.328781	1.5
-15	146.85	26.74233	0.045003	145.462	45.2445	2.03613	9.492957	1.6
-15	146.85	26.74233	0.045467	142.3473	44.27569	2.013082	9.289689	1.5
-15	146.85	26.72496	0.046032	138.8732	43.19512	1.988365	9.062967	1.5
-16	146.85	26.72496	0.045201	140.9097	43.82856	1.981109	9.195871	1.6
-16	146.85	26.72496	0.046156	138.2742	43.00881	1.985104	9.023876	1.5
-16	146.85	26.72496	0.044893	143.4254	44.61105	2.002714	9.360047	1.6
-16	146.85	26.74233	0.045255	143.1859	44.53653	2.01548	9.344417	1.5
-17	146.85	26.72496	0.046226	140.6701	43.75403	2.022572	9.180234	1.5
-17	146.85	26.72496	0.047124	138.5138	43.08333	2.030277	9.039512	1.5
-17	146.85	26.7076	0.048496	133.4824	41.51835	2.013471	8.71116	1.4
-18	146.85	26.72496	0.047758	133.4824	41.51837	1.982822	8.71116	1.5
-18	146.85	26.7076	0.047493	131.925	41.03396	1.948835	8.609522	1.5
-18	146.85	26.72496	0.048436	127.1332	39.5435	1.915324	8.296806	1.4
-18	146.85	26.7076	0.050299	119.7058	37.2333	1.872782	7.812089	1.4
-19	146.85	26.7076	0.049413	120.5444	37.49413	1.8527	7.866816	1.4

-19	146.85	26.7076	0.048241	123.0601	38.27661	1.846508	8.030993	1.5
-19	146.85	26.69023	0.047306	124.7373	38.79828	1.835389	8.140448	1.5
-20	146.85	26.67287	0.048666	120.0652	37.34509	1.817427	7.835543	1.4
-20	146.85	26.67287	0.048954	117.4297	36.52533	1.78807	7.663549	1.4
-20	146.85	26.62078	0.048421	117.7891	36.63711	1.774021	7.687003	1.4
-21	146.85	26.56869	0.046415	121.6226	37.82948	1.755841	7.93718	1.5
-21	146.85	26.53396	0.046254	120.4246	37.45686	1.732527	7.858998	1.5
-21	146.85	26.48186	0.046665	117.0703	36.41355	1.699221	7.640094	1.5
-22	146.85	26.41241	0.046595	115.7525	36.00368	1.677577	7.554093	1.5
-22	146.85	26.36031	0.046814	112.9972	35.14666	1.645367	7.37428	1.5
-22	146.85	26.30822	0.047505	109.2836	33.99155	1.614762	7.131928	1.5
-22	146.85	26.25613	0.048176	105.9293	32.94824	1.587301	6.913024	1.5
-23	146.85	26.2214	0.048372	105.0907	32.68741	1.581153	6.858296	1.4
-23	146.85	26.16931	0.047387	107.4866	33.43264	1.584258	7.014655	1.5
-23	146.85	26.11722	0.046002	110.9607	34.51322	1.58767	7.241377	1.5
-23	146.85	26.06512	0.045418	111.4399	34.66226	1.574297	7.27265	1.5
-24	146.85	25.99567	0.045271	110.0023	34.21513	1.54895	7.178831	1.5
-24	146.85	25.92621	0.044186	111.0805	34.55048	1.526646	7.249195	1.6
-24	146.85	25.87412	0.043113	113.2368	35.22118	1.518474	7.389917	1.6
-25	146.85	25.82202	0.051192	114.5546	35.63106	1.824031	7.475917	1.4
-25	146.85	25.75257	0.051218	114.0754	35.48202	1.817313	7.444644	1.4
-25	146.85	25.70048	0.04412	109.5231	34.06608	1.503009	7.147558	1.6
-26	146.85	25.64838	0.046848	102.6948	31.94218	1.496424	6.701938	1.5
-26	146.85	25.57893	0.047458	101.1374	31.45779	1.492927	6.600301	1.5
-26	146.85	25.52683	0.046798	102.4552	31.86766	1.491352	6.686302	1.5
-27	146.85	25.47474	0.046085	104.4917	32.50111	1.497809	6.819205	1.5
-27	146.85	25.40528	0.045042	108.445	33.73073	1.519312	7.0772	1.6
-27	146.85	25.33583	0.043804	112.9972	35.14666	1.539556	7.37428	1.6
-27	146.85	25.28373	0.044112	112.3983	34.96035	1.542161	7.335196	1.6
-28	146.85	25.21428	0.04393	112.3983	34.96035	1.535791	7.335196	1.6
-28	146.85	25.16218	0.0441	110.6013	34.40143	1.517089	7.217922	1.6
-28	146.85	25.11009	0.045744	105.8095	32.91097	1.505486	6.905206	1.5
-29	146.85	25.07536	0.047742	101.377	31.5323	1.505409	6.615938	1.5
-29	146.85	25.02327	0.04856	100.0593	31.12243	1.51131	6.529943	1.4
-29	146.85	24.98854	0.04958	98.38211	30.60077	1.51719	6.420489	1.4
-30	146.85	24.93645	0.049274	99.10089	30.82434	1.518831	6.467397	1.4
-30	146.85	24.90172	0.04873	101.0176	31.42052	1.531108	6.592483	1.4
-30	146.85	24.86699	0.047726	104.0125	32.35206	1.544045	6.787932	1.5
-31	146.85	24.83226	0.045754	109.5231	34.06608	1.558675	7.147558	1.5
-31	146.85	24.79754	0.045631	110.0023	34.21512	1.561268	7.178831	1.5
-31	146.85	24.78017	0.048237	102.6948	31.94219	1.540782	6.701938	1.5
-32	146.85	24.74544	0.051469	93.59026	29.11032	1.49829	6.107769	1.4
-32	146.85	24.72808	0.053823	87.00148	27.06094	1.456488	5.677781	1.3
-32	146.85	24.71072	0.053767	86.04311	26.76285	1.438947	5.615237	1.3
-33	146.85	24.67599	0.051668	90.35577	28.10426	1.452097	5.896684	1.4
-33	146.85	24.64126	0.048311	98.14252	30.52625	1.474767	6.404853	1.5
-33	146.85	24.62389	0.048838	98.8613	30.74981	1.501744	6.451761	1.4
-33	146.85	24.58917	0.049964	97.30395	30.26542	1.512186	6.350127	1.4
-34	146.85	24.5718	0.050709	95.26741	29.63198	1.502611	6.217221	1.4
-34	146.85	24.53707	0.050959	93.71006	29.14758	1.485328	6.115587	1.4
-34	146.85	24.50235	0.050825	93.35068	29.0358	1.47575	6.092134	1.4
-34	146.85	24.46762	0.051585	91.79333	28.55139	1.472814	5.9905	1.4
-35	146.85	24.43289	0.052537	90.47557	28.14152	1.478473	5.904502	1.3
-35	146.85	24.39816	0.055117	86.04311	26.76285	1.475089	5.615237	1.3
-35	146.85	24.3808	0.057495	81.73045	25.42145	1.461594	5.333789	1.2
-36	146.85	24.34607	0.059376	77.53759	24.11729	1.431987	5.06016	1.2
-36	146.85	24.3287	0.060415	75.14167	23.37207	1.412014	4.903801	1.2
-36	146.85	24.31134	0.058861	75.98024	23.63289	1.391053	4.958526	1.2
-37	146.85	24.29397	0.058151	76.45943	23.78194	1.382946	4.989799	1.2
-37	146.85	24.25925	0.057744	77.298	24.04277	1.388314	5.044524	1.2
-37	146.85	24.24188	0.056643	79.33453	24.67622	1.397744	5.17743	1.2
-38	146.85	24.20715	0.058141	77.89698	24.22908	1.408691	5.083614	1.2
-38	146.85	24.18979	0.060935	74.1833	23.07397	1.406015	4.841257	1.2
-38	146.85	24.15506	0.062106	71.54778	22.25423	1.382121	4.669261	1.1
-39	146.85	24.1377	0.064063	67.9539	21.13638	1.354063	4.434721	1.1
-39	146.85	24.10297	0.065298	64.71941	20.13033	1.314477	4.223636	1.1
-39	146.85	24.06824	0.065914	62.56308	19.45962	1.282665	4.082913	1.1
-39	146.85	24.05088	0.065458	61.24532	19.04974	1.246954	3.996915	1.1
-40	146.85	24.01615	0.065006	59.92756	18.63987	1.211707	3.910917	1.1
-40	146.85	23.98142	0.064821	58.25042	18.11821	1.174434	3.801465	1.1
-40	146.85	23.96405	0.063943	57.05246	17.7456	1.134701	3.723285	1.1

-40	146.85	23.92933	0.064344	54.77633	17.03763	1.096264	3.574744	1.1
-41	146.85	23.92933	0.064358	53.09918	16.51597	1.062941	3.465292	1.1
-41	146.85	23.8946	0.064943	51.06265	15.88253	1.031465	3.332386	1.1
-41	146.85	23.87723	0.064412	50.10428	15.58444	1.003828	3.269842	1.1
-42	146.85	23.85987	0.063694	49.6251	15.43539	0.983144	3.238571	1.1
-42	146.85	23.84251	0.063552	49.02612	15.24908	0.969103	3.199481	1.1
-42	146.85	23.80778	0.062975	48.90632	15.21182	0.957967	3.191662	1.1
-43	146.85	23.77305	0.06354	47.82816	14.87647	0.945248	3.121301	1.1
-43	146.85	23.73832	0.064767	46.15101	14.35481	0.929716	3.011849	1.1
-43	146.85	23.72096	0.066249	44.23427	13.75862	0.911498	2.886761	1.1
-44	146.85	23.68623	0.067162	42.79672	13.31149	0.894029	2.792945	1.0
-44	146.85	23.66886	0.067585	41.83835	13.0134	0.879512	2.730401	1.0
-44	146.85	23.63413	0.06748	41.35917	12.86435	0.868085	2.69913	1.0
-45	146.85	23.61677	0.067743	40.76019	12.67805	0.858852	2.66004	1.0
-45	146.85	23.58204	0.067406	40.52059	12.60352	0.849553	2.644403	1.0
-45	146.85	23.54731	0.068716	39.32263	12.23091	0.840454	2.566224	1.0
-45	146.85	23.51259	0.069594	38.24447	11.89556	0.827859	2.495862	1.0
-45	146.85	23.49522	0.070549	37.1663	11.56021	0.815564	2.4255	1.0
-46	146.85	23.44313	0.071603	36.08814	11.22486	0.803733	2.355139	1.0
-46	146.85	23.4084	0.072409	35.24957	10.96403	0.793891	2.300413	1.0
-46	146.85	23.35631	0.072942	34.53079	10.74046	0.783433	2.253505	1.0
-47	146.85	23.32158	0.073217	33.93181	10.55415	0.772743	2.214415	1.0
-47	146.85	23.30422	0.073707	33.21303	10.33058	0.761439	2.167507	1.0
-48	146.85	23.26949	0.07444	32.37446	10.06975	0.749589	2.112781	0.9
-48	146.85	23.25212	0.075915	31.1765	9.697139	0.736157	2.034601	0.9
-48	146.85	23.23476	0.076914	30.21813	9.399045	0.722915	1.972057	0.9
-49	146.85	23.21739	0.078268	29.13996	9.063692	0.709398	1.901695	0.9
-49	146.85	23.20003	0.079923	28.0618	8.72834	0.697597	1.831334	0.9
-49	146.85	23.20003	0.082072	26.86384	8.355728	0.685773	1.753154	0.9
-50	146.85	23.18267	0.084268	25.78567	8.020378	0.675863	1.682792	0.8
-50	146.85	23.18267	0.085836	25.0669	7.796806	0.669249	1.635884	0.8
-50	146.85	23.1653	0.086441	24.70751	7.685025	0.664305	1.61243	0.8
-50	146.85	23.1653	0.088756	23.99622	7.463785	0.662454	1.566011	0.8
-51	146.85	23.14794	0.092415	23.06031	7.172681	0.662865	1.504933	0.8
-51	146.85	23.14794	0.093484	22.76082	7.079527	0.661823	1.485388	0.7
-51	146.85	23.14794	0.093565	22.50625	7.000346	0.654985	1.468774	0.7
-52	146.85	23.13057	0.093893	22.10943	6.87692	0.645697	1.442878	0.7
-52	146.85	23.13057	0.092497	21.98963	6.839656	0.632647	1.435059	0.8
-52	146.85	23.11321	0.088031	22.64102	7.042266	0.619936	1.47757	0.8
-53	146.85	23.11321	0.084006	23.36729	7.26816	0.61057	1.524967	0.8
-53	146.85	23.09584	0.083977	23.19508	7.214598	0.605861	1.513728	0.8
-53	146.85	23.06112	0.084612	22.87313	7.114459	0.601968	1.492717	0.8
-54	146.85	23.04375	0.086365	22.34902	6.95144	0.600362	1.458513	0.8
-54	146.85	23.02639	0.088658	21.75004	6.765134	0.59978	1.419424	0.8
-54	146.85	23.00902	0.092328	20.90398	6.501974	0.600317	1.364209	0.8
-55	146.85	22.9743	0.09549	20.22264	6.290053	0.600639	1.319744	0.7
-55	146.85	22.95693	0.101859	19.12201	5.947713	0.605827	1.247916	0.7
-55	146.85	22.93957	0.107875	18.31339	5.696198	0.614479	1.195145	0.6
-56	146.85	22.9222	0.117771	17.05553	5.304952	0.624768	1.113056	0.6
-56	146.85	22.90484	0.12513	16.14957	5.023164	0.62855	1.053933	0.6
-56	146.85	22.88747	0.129757	15.49818	4.820555	0.625499	1.011423	0.5
-56	146.85	22.87011	0.127122	15.54311	4.834528	0.614574	1.014355	0.6
-57	146.85	22.85275	0.125239	15.31849	4.764663	0.596722	0.999696	0.6
-57	146.85	22.83538	0.123359	15.07141	4.687811	0.578286	0.983571	0.6
-57	146.85	22.83538	0.118649	15.2511	4.7437	0.562833	0.995298	0.6
-58	146.85	22.81802	0.116405	15.21367	4.732057	0.550834	0.992855	0.6
-58	146.85	22.81802	0.116518	14.84679	4.617948	0.538075	0.968912	0.6
-58	146.85	22.78329	0.117506	14.42002	4.485203	0.52704	0.941061	0.6
-59	146.85	22.76592	0.118299	14.08309	4.380404	0.518196	0.919073	0.6
-59	146.85	22.74856	0.119359	13.79109	4.28958	0.512001	0.900017	0.6
-59	146.85	22.7312	0.119929	13.67878	4.254647	0.510257	0.892687	0.6
-60	146.85	22.71383	0.122412	13.42421	4.175467	0.511129	0.876074	0.6
-60	146.85	22.69647	0.12351	13.43919	4.180124	0.516289	0.877051	0.6
-60	146.85	22.69647	0.125684	13.34185	4.149849	0.521569	0.870699	0.6
-61	146.85	22.6791	0.127891	13.30442	4.138206	0.52924	0.868256	0.5
-61	146.85	22.66174	0.131312	13.08729	4.070668	0.534529	0.854086	0.5
-61	146.85	22.64438	0.133624	12.87764	4.005463	0.535226	0.840404	0.5
-62	146.85	22.64438	0.136586	12.51077	3.891351	0.531503	0.816462	0.5
-62	146.85	22.62701	0.134408	12.51077	3.891349	0.523029	0.816462	0.5
-62	146.85	22.60965	0.132053	12.42841	3.865733	0.51048	0.811087	0.5
-62	146.85	22.60965	0.131563	12.15887	3.781895	0.497559	0.793497	0.5

-63	146.85	22.60965	0.140488	11.12562	3.460513	0.48616	0.726066	0.5
-63	146.85	22.59228	0.150774	10.18223	3.167082	0.477514	0.6645	0.5
-63	146.85	22.57492	0.157895	9.620686	2.992417	0.472486	0.627853	0.4
-63	146.85	22.57492	0.177749	8.550008	2.659394	0.472704	0.55798	0.4
-64	146.85	22.55755	0.182843	8.400263	2.612817	0.477736	0.548207	0.4
-64	146.85	22.54019	0.172779	8.894422	2.766521	0.477997	0.580457	0.4
-64	146.85	22.52283	0.150149	10.07741	3.134477	0.47064	0.657659	0.5
-65	146.85	22.50546	0.136707	10.77372	3.351059	0.458114	0.703101	0.5
-65	146.85	22.4881	0.13092	10.91598	3.395306	0.444514	0.712385	0.5
-65	146.85	22.47073	0.129344	10.76624	3.348729	0.433138	0.702613	0.5
-65	146.85	22.45337	0.129963	10.61649	3.302154	0.429157	0.69284	0.5
-66	146.85	22.45337	0.133441	10.36941	3.225302	0.430388	0.676715	0.5
-66	146.85	22.436	0.135932	10.27208	3.195026	0.434307	0.670363	0.5
-66	146.85	22.41864	0.140048	10.12982	3.150778	0.441259	0.66108	0.5
-66	146.85	22.40128	0.145383	9.890227	3.076258	0.447235	0.645443	0.5
-67	146.85	22.36655	0.151822	9.515864	2.959814	0.449366	0.621012	0.5
-67	146.85	22.34918	0.15147	9.463453	2.943513	0.445853	0.617592	0.5
-67	146.85	22.31446	0.149717	9.373606	2.915565	0.436509	0.611728	0.5
-68	146.85	22.29709	0.148414	9.238835	2.873647	0.42649	0.602933	0.5
-68	146.85	22.27973	0.149791	8.984269	2.794468	0.418586	0.58632	0.5
-68	146.85	22.26236	0.153457	8.662316	2.694327	0.413463	0.565309	0.5
-68	146.85	22.245	0.153846	8.624881	2.682683	0.412719	0.562866	0.5
-69	146.85	22.21027	0.151999	8.767138	2.726932	0.41449	0.57215	0.5
-69	146.85	22.19291	0.147183	9.044167	2.813097	0.414039	0.590229	0.5
-69	146.85	22.17554	0.145267	9.111552	2.834058	0.411696	0.594627	0.5
-70	146.85	22.14081	0.146733	8.991756	2.796797	0.410383	0.586809	0.5
-70	146.85	22.12345	0.146388	8.984269	2.794467	0.409076	0.58632	0.5
-70	146.85	22.08872	0.144496	9.044167	2.813098	0.406483	0.590229	0.5
-70	146.85	22.05399	0.143911	9.029192	2.808441	0.404166	0.589252	0.5
-71	146.85	22.01926	0.14519	8.864472	2.757206	0.400318	0.578502	0.5
-71	146.85	21.96717	0.145888	8.699753	2.705971	0.394769	0.567752	0.5
-71	146.85	21.93244	0.149471	8.355339	2.598844	0.388452	0.545276	0.5
-71	146.85	21.89771	0.152942	8.040874	2.501034	0.382513	0.524753	0.5
-72	146.85	21.84562	0.150549	8.0259	2.496376	0.375826	0.523776	0.5
-72	146.85	21.79353	0.149315	7.936053	2.468429	0.368574	0.517913	0.5
-72	146.85	21.7588	0.151581	7.681486	2.389249	0.362165	0.501299	0.5
-73	146.85	21.72407	0.153648	7.471843	2.324042	0.357083	0.487618	0.5
-73	146.85	21.68934	0.156656	7.232251	2.24952	0.3524	0.471982	0.4
-73	146.85	21.65462	0.152976	7.337072	2.282124	0.34911	0.478823	0.5
-73	146.85	21.60252	0.146441	7.651537	2.379933	0.348519	0.499345	0.5
-74	146.85	21.56779	0.140894	7.980977	2.482403	0.349755	0.520844	0.5
-74	146.85	21.53307	0.138171	8.138208	2.531308	0.349754	0.531105	0.5
-74	146.85	21.49834	0.139639	8.085798	2.515008	0.351193	0.527685	0.5
-74	146.85	21.46361	0.143815	7.936053	2.468431	0.354998	0.517913	0.5
-75	146.85	21.42888	0.143116	8.100773	2.519664	0.360603	0.528662	0.5
-75	146.85	21.39415	0.144064	8.243031	2.563912	0.369366	0.537946	0.5
-75	146.85	21.35942	0.147422	8.190619	2.547611	0.375574	0.534526	0.5
-76	146.85	21.3247	0.151956	8.018413	2.494048	0.378986	0.523288	0.5
-76	146.85	21.2726	0.156359	7.793795	2.424182	0.379042	0.508629	0.4
-76	146.85	21.23787	0.16819	7.217276	2.244862	0.377563	0.471005	0.4
-76	146.85	21.18578	0.174899	6.850401	2.130749	0.372666	0.447062	0.4
-77	146.85	21.15105	0.169785	6.970197	2.168011	0.368096	0.45488	0.4
-77	146.85	21.11633	0.169668	6.865375	2.135406	0.362309	0.448039	0.4
-77	146.85	21.06423	0.175361	6.573372	2.044582	0.358539	0.428983	0.4
-78	146.85	21.01214	0.178763	6.356242	1.977045	0.353422	0.414813	0.4
-78	146.85	20.97741	0.186175	6.041777	1.879234	0.349866	0.394291	0.4
-78	146.85	20.94268	0.178715	6.243933	1.942113	0.347085	0.407484	0.4
-78	146.85	20.90796	0.168361	6.603321	2.053897	0.345795	0.430938	0.4
-79	146.85	20.87323	0.161599	6.887837	2.142393	0.346209	0.449505	0.4
-79	146.85	20.8385	0.160523	6.992659	2.174996	0.349138	0.456346	0.4
-79	146.85	20.80377	0.161347	7.037582	2.18897	0.353185	0.459278	0.4
-79	146.85	20.78641	0.168565	6.768041	2.105132	0.354852	0.441687	0.4
-80	146.85	20.75168	0.168	6.865375	2.135406	0.358747	0.448039	0.4
-80	146.85	20.73431	0.17005	6.917786	2.151709	0.365898	0.45146	0.4
-80	146.85	20.71695	0.174671	6.955222	2.163353	0.377875	0.453903	0.4
-81	146.85	20.68222	0.184829	6.812964	2.119104	0.391673	0.444619	0.4
-81	146.85	20.66486	0.198689	6.520961	2.02828	0.402996	0.425563	0.4
-81	146.85	20.63013	0.208111	6.311318	1.963073	0.408536	0.411881	0.3
-81	146.85	20.61276	0.22531	5.854596	1.821014	0.410293	0.382075	0.3
-82	146.85	20.57804	0.236268	5.615004	1.746491	0.41264	0.366439	0.3
-82	146.85	20.54331	0.236792	5.659927	1.760464	0.416864	0.369371	0.3

-82	146.85	20.52594	0.241491	5.689876	1.769779	0.427386	0.371325	0.3
-82	146.85	20.49121	0.250345	5.644952	1.755805	0.439556	0.368394	0.3
-83	146.85	20.45649	0.260384	5.547618	1.725531	0.449301	0.362042	0.3
-83	146.85	20.42176	0.274847	5.337975	1.660324	0.456336	0.34836	0.3
-83	146.85	20.40439	0.294154	5.060946	1.574157	0.463045	0.330281	0.2
-84	146.85	20.36967	0.296398	5.083408	1.581143	0.468647	0.331747	0.2
-84	146.85	20.33494	0.284183	5.337975	1.660324	0.471836	0.34836	0.2
-84	146.85	20.28284	0.278607	5.480233	1.704572	0.474905	0.357644	0.3
-84	146.85	20.24812	0.278672	5.532644	1.720874	0.479559	0.361064	0.3
-85	146.85	20.23075	0.286509	5.427822	1.688271	0.483705	0.354224	0.2
-85	146.85	20.21339	0.300845	5.203204	1.618405	0.486889	0.339565	0.2
-85	146.85	20.17866	0.308307	5.090896	1.583473	0.488195	0.332236	0.2
-85	146.85	20.14393	0.303258	5.165768	1.60676	0.487262	0.337122	0.2
-86	146.85	20.09184	0.298136	5.233153	1.62772	0.485282	0.341519	0.2
-86	146.85	20.07447	0.302903	5.135819	1.597445	0.483871	0.335167	0.2
-86	146.85	20.05711	0.297756	5.135819	1.597445	0.475649	0.335167	0.2
-87	146.85	20.02238	0.298411	5.02351	1.562512	0.466271	0.327838	0.2
-87	146.85	19.98765	0.300374	4.873765	1.515936	0.455348	0.318065	0.2
-87	146.85	19.97029	0.310965	4.596736	1.429769	0.444607	0.299986	0.2
-87	146.85	19.93556	0.322044	4.327195	1.34593	0.433449	0.282396	0.2
-88	146.85	19.9182	0.330244	4.132526	1.285381	0.424489	0.269692	0.2
-88	146.85	19.90083	0.329297	4.080116	1.269079	0.417904	0.266271	0.2
-88	146.85	19.88347	0.317034	4.162476	1.294697	0.410463	0.271646	0.2
-88	146.85	19.8661	0.304546	4.25981	1.324971	0.403515	0.277998	0.2
-89	146.85	19.84874	0.290688	4.402068	1.369219	0.398015	0.287282	0.2
-89	146.85	19.83138	0.254288	4.896227	1.522922	0.387261	0.319531	0.3
-89	146.85	19.81401	0.249392	4.933663	1.534566	0.382709	0.321974	0.3

7.2.4 Abril

Prof	Long	Temp	PAR (uE/(m2.sec)	Chl-a (mg / m3)	Prod (mgC/m3/h	Efic (mgC/mg Clor-a/h)	% LUZ	clors:clorf
-4	0	24.1377	8.647343	2.147165	5.775162	2.689668	15.00976	0.8
-4	0	24.1377	7.584152	2.055204	4.848172	2.358974	13.16431	0.8
-4	0	24.15506	6.476038	1.999748	4.028108	2.014308	11.24088	0.8
-5	0	24.15506	5.832134	1.840074	3.337944	1.814027	10.12322	0.9
-5	0	24.17243	5.016023	1.785371	2.785507	1.560184	8.706641	0.9
-5	0	24.17243	4.514377	1.656622	2.326149	1.404152	7.835901	1.0
-5	0	24.17243	4.035192	1.518882	1.906359	1.255107	7.004148	1.1
-6	0	24.18979	3.780626	1.352835	1.590834	1.175926	6.562281	1.2
-6	0	24.18979	3.526059	1.221723	1.339919	1.096746	6.120412	1.4
-6	0	24.18979	3.428725	1.091684	1.164249	1.066471	5.951463	1.5
-6	0	24.18979	3.563495	0.94225	1.04438	1.108389	6.185393	1.8
-6	0	24.18979	3.720727	0.835931	0.967419	1.157295	6.45831	2.0
-6	0	24.20715	3.765651	0.781486	0.915329	1.171268	6.536288	2.1
-6	0	24.20715	3.63088	0.770038	0.869642	1.129349	6.302357	2.2
-6	0	24.20715	3.144209	0.829813	0.811536	0.977975	5.45761	2.0
-6	0	24.20715	2.942053	0.810185	0.741398	0.915096	5.106715	2.0
-7	0	24.20715	2.43292	0.872507	0.660256	0.756735	4.222979	1.9
-7	0	24.20715	2.051069	0.90217	0.575553	0.637965	3.560175	1.8
-7	0	24.20715	1.789015	0.88955	0.494995	0.556455	3.105311	1.9
-8	0	24.22452	1.519474	0.893348	0.422212	0.472617	2.637451	1.9
-8	0	24.22452	1.444602	0.810835	0.364331	0.449329	2.507491	2.0
-8	0	24.22452	1.317318	0.762141	0.312279	0.409739	2.286555	2.2
-8	0	24.22452	1.234958	0.703202	0.270115	0.384121	2.143598	2.4
-8	0	24.22452	1.205009	0.625308	0.234369	0.374806	2.091613	2.6
-8	0	24.22452	1.205009	0.559873	0.209844	0.374806	2.091613	3.0
-9	0	24.22452	1.182548	0.521463	0.191804	0.36782	2.052626	3.2
-9	0	24.22452	1.182548	0.485812	0.178691	0.36782	2.052626	3.4
-9	0	24.22452	1.085213	0.489706	0.165298	0.337545	1.883676	3.4
-9	0	24.22452	1.055264	0.46145	0.151461	0.328229	1.831691	3.6
-9	0	24.22452	0.950443	0.461328	0.13638	0.295626	1.649746	3.6
-9	0	24.22452	0.733312	0.550468	0.125556	0.228089	1.272858	3.0
-9	0	24.22452	0.815672	0.450123	0.114199	0.253707	1.415816	3.7
-10	0	24.22452	0.763261	0.431899	0.102535	0.237405	1.324843	3.8
-10	0	24.24188	0.79321	0.400239	0.098747	0.24672	1.376827	4.1

-10	0	24.24188	0.71085	0.411045	0.090883	0.221103	1.23387	4.0
-10	0	24.24188	0.553618	0.485752	0.083645	0.172197	0.960951	3.4
-10	0	24.24188	0.508695	0.476401	0.075378	0.158224	0.882974	3.5
-11	0	24.24188	0.546131	0.409983	0.069643	0.169868	0.947955	4.0
-11	0	24.24188	0.516182	0.406764	0.065307	0.160553	0.895971	4.1
-11	0	24.24188	0.538644	0.354106	0.059327	0.16754	0.934959	4.7
-11	0	24.24188	0.373924	0.459149	0.053401	0.116305	0.649044	3.6
-12	0	24.24188	0.403873	0.39998	0.050246	0.125621	0.701029	4.1
-12	0	24.24188	0.41136	0.3534	0.045217	0.127949	0.714025	4.7
-12	0	24.24188	0.201717	0.638819	0.040081	0.062742	0.350133	2.6
-12	0	24.24188	0.269102	0.420032	0.035157	0.083702	0.467099	3.9
-12	0	24.24188	0.269102	0.365323	0.030578	0.083702	0.467099	4.5
-12	0	24.24188	0.321513	0.310544	0.031055	0.100003	0.558071	5.3
-13	0	24.24188	0.254128	0.368222	0.029106	0.079044	0.441106	4.5
-13	0	24.25925	0.179255	0.470276	0.02622	0.055756	0.311145	3.5
-13	0	24.24188	0.27659	0.276737	0.023808	0.08603	0.480095	6.0
-13	0	24.25925	0.299051	0.233289	0.0217	0.093017	0.519083	7.1
-1	3.23	24.20715	99.46027	1.906919	58.99267	30.93612	33.1035	0.4
-1	3.23	24.22452	86.76189	1.857694	50.13252	26.98643	28.87708	0.4
-2	3.23	24.22452	78.25636	1.732789	42.17758	24.34086	26.04617	0.4
-2	3.23	24.22452	77.77718	1.473044	35.63561	24.19182	25.88669	0.5
-2	3.23	24.22452	72.62595	1.334925	30.15538	22.58957	24.1722	0.5
-2	3.23	24.22452	65.91737	1.227941	25.17639	20.50293	21.93937	0.6
-3	3.23	24.22452	59.92756	1.16724	21.7572	18.63987	19.94577	0.6
-3	3.23	24.22452	55.8545	1.088121	18.9039	17.37298	18.59013	0.7
-3	3.23	24.22452	53.69817	0.992578	16.57832	16.70228	17.87244	0.7
-4	3.23	24.22452	51.30224	0.916694	14.62774	15.95705	17.075	0.8
-4	3.23	24.24188	48.18754	0.870586	13.04856	14.98825	16.03833	0.8
-4	3.23	24.24188	44.95305	0.837068	11.70405	13.9822	14.96179	0.9
-4	3.23	24.24188	42.67692	0.79529	10.55687	13.27423	14.20422	0.9
-5	3.23	24.24188	40.52059	0.753862	9.501322	12.60353	13.48652	1.0
-5	3.23	24.24188	37.64548	0.732069	8.571977	11.70926	12.5296	1.0
-5	3.23	24.24188	34.77038	0.71776	7.76256	10.81498	11.57267	1.0
-6	3.23	24.24188	32.85364	0.687007	7.020384	10.2188	10.93472	1.1
-6	3.23	24.24188	31.41609	0.647818	6.33026	9.771663	10.45626	1.1
-6	3.23	24.24188	28.90037	0.634412	5.702832	8.989169	9.61895	1.2
-7	3.23	24.24188	26.38465	0.632553	5.191163	8.20668	8.781639	1.2
-7	3.23	24.24188	23.74165	0.637795	4.709867	7.384606	7.901966	1.1
-7	3.23	24.24188	21.7725	0.639388	4.330014	6.772118	7.246571	1.1
-8	3.23	24.24188	20.23762	0.636598	4.0072	6.294708	6.735715	1.1
-8	3.23	24.24188	18.94981	0.626389	3.692028	5.894148	6.307091	1.2
-8	3.23	24.24188	17.7818	0.611358	3.381327	5.53085	5.918341	1.2
-8	3.23	24.24188	16.98815	0.585571	3.094153	5.283993	5.654189	1.3
-9	3.23	24.24188	16.37419	0.551946	2.811076	5.093029	5.449844	1.3
-9	3.23	24.24188	15.9549	0.514284	2.55219	4.962614	5.310291	1.4
-9	3.23	24.24188	15.43828	0.482551	2.317173	4.801924	5.138344	1.5
-10	3.23	24.24188	14.92166	0.453467	2.104647	4.641234	4.966397	1.6
-10	3.23	24.24188	14.11304	0.44003	1.931608	4.38972	4.697263	1.7
-10	3.23	24.24188	13.41672	0.427762	1.78511	4.173137	4.465505	1.7
-10	3.23	24.24188	12.55569	0.423664	1.654545	3.905322	4.178928	1.7
-11	3.23	24.24188	11.88932	0.41158	1.522046	3.698056	3.957139	1.8
-11	3.23	24.24188	10.75875	0.424474	1.420461	3.346402	3.58085	1.7
-11	3.23	24.24188	9.965099	0.427703	1.325684	3.099544	3.316698	1.7
-12	3.23	24.24188	9.148989	0.436355	1.241736	2.845701	3.045071	1.7
-12	3.23	24.24188	8.40775	0.445773	1.165762	2.615146	2.798363	1.6
-12	3.23	24.24188	7.733897	0.456413	1.097924	2.405551	2.574084	1.6
-13	3.23	24.24188	7.134916	0.466216	1.034647	2.219244	2.374724	1.6
-13	3.23	24.24188	6.895324	0.45017	0.96549	2.144722	2.29498	1.6
-13	3.23	24.24188	6.393678	0.45364	0.90215	1.98869	2.128017	1.6
-13	3.23	24.24188	6.004341	0.453373	0.846715	1.86759	1.998433	1.6
-14	3.23	24.24188	5.86957	0.432726	0.790016	1.825671	1.953577	1.7
-14	3.23	24.24188	5.689876	0.413087	0.731074	1.769779	1.893769	1.8
-14	3.23	24.24188	5.472745	0.396048	0.67417	1.702243	1.821501	1.8
-15	3.23	24.24188	5.090896	0.392945	0.622217	1.583472	1.69441	1.9
-15	3.23	24.24188	4.798892	0.384066	0.573275	1.492648	1.597222	1.9
-15	3.23	24.24188	4.454479	0.380498	0.527187	1.385521	1.48259	1.9
-16	3.23	24.24188	4.140014	0.377011	0.485481	1.28771	1.377927	1.9
-16	3.23	24.24188	3.810575	0.374731	0.444146	1.185241	1.268279	2.0
-16	3.23	24.24188	3.511084	0.372601	0.406913	1.092088	1.168599	2.0
-16	3.23	24.24188	3.353852	0.356095	0.371471	1.043182	1.116267	2.1
-17	3.23	24.25925	3.061849	0.346908	0.33038	0.952357	1.019079	2.1

-17	3.23	24.25925	2.837231	0.33676	0.297188	0.882493	0.94432	2.2
-17	3.23	24.25925	2.657537	0.323809	0.26766	0.8266	0.884512	2.3
-18	3.23	24.27661	2.447894	0.317638	0.241847	0.761393	0.814736	2.3
-18	3.23	24.27661	2.290662	0.308664	0.219919	0.712487	0.762404	2.4
-18	3.23	24.27661	2.253225	0.285848	0.200335	0.700843	0.749944	2.6
-19	3.23	24.29397	2.051069	0.289096	0.184433	0.637965	0.68266	2.5
-19	3.23	24.31134	1.991171	0.279026	0.17281	0.619334	0.662724	2.6
-19	3.23	24.31134	1.908811	0.273281	0.162251	0.593717	0.635312	2.7
-20	3.23	24.3287	1.818964	0.268563	0.151945	0.565771	0.605408	2.7
-20	3.23	24.3287	1.744092	0.263469	0.142927	0.542482	0.580489	2.8
-20	3.23	24.34607	1.586859	0.269679	0.133107	0.493577	0.528156	2.7
-20	3.23	24.34607	1.444602	0.274779	0.123466	0.449329	0.480809	2.7
-21	3.23	24.34607	1.302344	0.280701	0.113707	0.405081	0.433461	2.6
-21	3.23	24.36343	1.145111	0.294831	0.105012	0.356175	0.381129	2.5
-22	3.23	24.36343	1.032802	0.301656	0.096905	0.321243	0.343749	2.4
-22	3.23	24.36343	0.898032	0.320956	0.08965	0.279324	0.298893	2.3
-22	3.23	24.36343	0.643465	0.434531	0.086969	0.200143	0.214165	1.7
-22	3.23	24.3808	0.568593	0.465721	0.082365	0.176855	0.189245	1.6
-23	3.23	24.3808	0.561105	0.45352	0.079151	0.174526	0.186753	1.6
-3	6.68	24.10297	53.21898	0.940203	15.56339	16.55323	20.89889	0.8
-4	6.68	24.10297	49.86469	0.891747	13.83092	15.50991	19.58168	0.8
-4	6.68	24.10297	46.15101	0.86312	12.38992	14.35481	18.12333	0.9
-4	6.68	24.12033	41.95815	0.853867	11.14353	13.05066	16.47681	0.9
-5	6.68	24.12033	38.48406	0.839432	10.04807	11.97008	15.11255	0.9
-5	6.68	24.12033	36.80692	0.791712	9.063848	11.44842	14.45394	0.9
-5	6.68	24.12033	35.72875	0.73647	8.184447	11.11307	14.03055	1.0
-5	6.68	24.1377	34.1714	0.694191	7.378331	10.62867	13.41898	1.1
-6	6.68	24.1377	31.53588	0.679323	6.663427	9.808919	12.38402	1.1
-6	6.68	24.1377	28.90037	0.674517	6.063353	8.989174	11.34907	1.1
-6	6.68	24.1377	27.34302	0.651213	5.538417	8.504772	10.7375	1.1
-7	6.68	24.1377	26.38465	0.615955	5.054944	8.206681	10.36115	1.2
-7	6.68	24.15506	25.0669	0.590982	4.607777	7.79681	9.843678	1.2
-7	6.68	24.15506	23.59191	0.569013	4.175432	7.338026	9.264455	1.3
-8	6.68	24.15506	22.06451	0.561746	3.855233	6.862945	8.664651	1.3
-8	6.68	24.15506	20.96388	0.551154	3.593856	6.520605	8.232437	1.3
-8	6.68	24.17243	19.97556	0.54113	3.36215	6.213199	7.844328	1.4
-8	6.68	24.17243	19.09207	0.531507	3.156298	5.938397	7.497385	1.4
-9	6.68	24.17243	18.04385	0.533831	2.996048	5.612359	7.085753	1.4
-9	6.68	24.17243	17.18282	0.53639	2.866762	5.344543	6.747629	1.4
-9	6.68	24.18979	16.41912	0.544057	2.778498	5.107001	6.447727	1.4
-10	6.68	24.18979	15.26608	0.565271	2.684112	4.74836	5.994933	1.3
-10	6.68	24.18979	14.24781	0.591222	2.620082	4.431639	5.595062	1.2
-10	6.68	24.18979	13.40924	0.618303	2.578822	4.170809	5.265758	1.2
-10	6.68	24.18979	12.51077	0.649514	2.527484	3.891349	4.912933	1.1
-11	6.68	24.18979	11.81445	0.667324	2.452261	3.674768	4.63949	1.1
-11	6.68	24.18979	11.15557	0.679479	2.357676	3.46983	4.380751	1.1
-11	6.68	24.18979	10.49669	0.690574	2.254649	3.264892	4.122011	1.1
-11	6.68	24.18979	9.905201	0.696056	2.14449	3.080914	3.889735	1.1
-12	6.68	24.18979	9.613198	0.672802	2.011739	2.99009	3.775067	1.1
-12	6.68	24.20715	9.351145	0.639004	1.858593	2.90858	3.67216	1.2
-12	6.68	24.20715	9.223861	0.591221	1.696207	2.86899	3.622176	1.2
-12	6.68	24.20715	9.126527	0.539113	1.530387	2.838715	3.583953	1.4
-13	6.68	24.20715	9.111552	0.470318	1.332909	2.834057	3.578072	1.6
-13	6.68	24.22452	8.699753	0.431272	1.16701	2.705971	3.416361	1.7
-13	6.68	24.22452	8.27298	0.400765	1.03126	2.573228	3.248768	1.8
-14	6.68	24.22452	7.793795	0.382297	0.926758	2.424182	3.060594	1.9
-14	6.68	24.24188	7.224763	0.37876	0.851145	2.24719	2.837137	1.9
-14	6.68	24.24188	6.730605	0.380242	0.796033	2.093487	2.643083	1.9
-15	6.68	24.24188	6.199009	0.391659	0.755173	1.92814	2.434328	1.9
-15	6.68	24.25925	5.847108	0.399793	0.727097	1.818685	2.296137	1.8
-15	6.68	24.25925	5.510182	0.412108	0.706307	1.713887	2.163828	
-15	6.68	24.25925	5.195717	0.422002	0.681986	1.616076	2.040339	
-16	6.68	24.27661	4.896227	0.427771	0.651462	1.522922	1.92273	
-16	6.68	24.27661	4.791405	0.415747	0.619595	1.490319	1.881567	
-16	6.68	24.27661	4.664122	0.401117	0.581913	1.450729	1.831583	
-16	6.68	24.27661	4.514377	0.385995	0.541996	1.404151	1.772779	
-17	6.68	24.27661	4.334682	0.374921	0.505491	1.348259	1.702213	
-17	6.68	24.27661	4.244835	0.354132	0.467565	1.320313	1.666931	
-17	6.68	24.27661	4.110065	0.341364	0.436398	1.278395	1.614007	
-17	6.68	24.27661	3.862985	0.340529	0.40916	1.201543	1.51698	
-18	6.68	24.27661	3.833036	0.324387	0.386743	1.192228	1.505219	

-18	6.68	24.27661	3.66083	0.323244	0.368067	1.138665	1.437594	
-18	6.68	24.27661	3.615906	0.313164	0.352213	1.124691	1.419953	
-19	6.68	24.27661	3.391288	0.319336	0.336844	1.054826	1.331746	
-19	6.68	24.27661	3.383801	0.307807	0.323966	1.052497	1.328806	
-19	6.68	24.27661	3.286467	0.30363	0.310377	1.022223	1.290583	
-19	6.68	24.27661	3.151696	0.304814	0.29881	0.980304	1.237659	
-20	6.68	24.27661	2.927078	0.318449	0.289929	0.910438	1.149453	
-20	6.68	24.27661	2.859693	0.316598	0.281607	0.889479	1.122991	
-20	6.68	24.27661	2.702461	0.326513	0.274458	0.840573	1.061246	
-21	6.68	24.27661	2.560203	0.333659	0.265701	0.796325	1.005382	
-21	6.68	24.27661	2.500305	0.330533	0.257053	0.777695	0.98186	
-21	6.68	24.27661	2.290662	0.344721	0.245609	0.712487	0.899534	
-21	6.68	24.27661	2.18584	0.34949	0.237612	0.679884	0.858371	
-22	6.68	24.27661	2.006146	0.36498	0.227744	0.623991	0.787806	
-22	6.68	24.27661	1.976197	0.35598	0.218812	0.614676	0.776045	
-22	6.68	24.27661	1.871375	0.360623	0.209908	0.582072	0.734882	
-23	6.68	24.27661	1.736605	0.37264	0.201283	0.540153	0.681958	
-23	6.68	24.27661	1.72163	0.361175	0.193408	0.535496	0.676078	
-23	6.68	24.27661	1.654245	0.356961	0.18367	0.514536	0.649616	
-23	6.68	24.27661	1.609321	0.34923	0.174812	0.500563	0.631974	
-24	6.68	24.27661	1.571885	0.335829	0.164193	0.488919	0.617273	
-24	6.68	24.27661	1.571885	0.315498	0.154253	0.488919	0.617273	
-24	6.68	24.29397	1.429627	0.326325	0.145108	0.444671	0.561409	
-24	6.68	24.29397	1.459576	0.302816	0.137474	0.453987	0.57317	
-25	6.68	24.29397	1.317318	0.315508	0.129276	0.409739	0.517306	
-25	6.68	24.29397	1.332293	0.298271	0.123602	0.414396	0.523186	
-25	6.68	24.29397	1.347267	0.280487	0.117539	0.419054	0.529067	
-26	6.68	24.29397	1.219984	0.29459	0.111786	0.379464	0.479083	
-26	6.68	24.29397	1.234958	0.281084	0.10797	0.384122	0.484963	
-26	6.68	24.29397	1.077726	0.310877	0.104211	0.335216	0.423219	
-26	6.68	24.29397	1.070239	0.306506	0.102032	0.332887	0.420279	
-27	6.68	24.29397	1.055264	0.301774	0.099051	0.328229	0.414398	
-27	6.68	24.29397	0.965417	0.323849	0.097246	0.300283	0.379116	
-27	6.68	24.29397	0.95793	0.322043	0.095954	0.297955	0.376175	
-27	6.68	24.29397	0.942955	0.320351	0.093958	0.293297	0.370295	
-28	6.68	24.29397	0.830647	0.354527	0.091597	0.258364	0.326192	
-28	6.68	24.29397	0.853108	0.332498	0.088229	0.265351	0.335012	
-28	6.68	24.29397	0.883057	0.307868	0.084561	0.274666	0.346773	
-28	6.68	24.29397	0.733312	0.35493	0.080956	0.228089	0.287969	
-29	6.68	24.29397	0.755774	0.330343	0.077656	0.235076	0.29679	
-29	6.68	24.29397	0.695876	0.33976	0.073539	0.216445	0.273268	
-29	6.68	24.29397	0.695876	0.325128	0.070372	0.216445	0.273268	
-30	6.68	24.29397	0.650952	0.329256	0.066665	0.202472	0.255627	
-30	6.68	24.29397	0.516182	0.401919	0.064529	0.160553	0.202703	
-30	6.68	24.29397	0.523669	0.377068	0.061418	0.162882	0.205643	
-30	6.68	24.29397	0.516182	0.3645	0.058522	0.160553	0.202703	
-31	6.68	24.29397	0.49372	0.361768	0.055555	0.153567	0.193882	
-31	6.68	24.29397	0.448797	0.363599	0.050756	0.139594	0.176241	
-31	6.68	24.29397	0.396386	0.374261	0.046143	0.123292	0.155659	
-31	6.68	24.29397	0.366437	0.359138	0.040933	0.113976	0.143898	
-31	6.68	24.29397	0.433822	0.261406	0.035273	0.134936	0.17036	
-31	6.68	24.31134	0.418847	0.228186	0.029728	0.130278	0.16448	
-31	6.68	24.31134	0.448797	0.178442	0.024909	0.139594	0.176241	
-31	6.68	24.29397	0.321513	0.247504	0.024751	0.100003	0.126257	
-31	6.68	24.31134	0.381411	0.204928	0.024311	0.118634	0.149779	
-31	6.68	24.31134	0.418847	0.172215	0.022436	0.130278	0.16448	
-31	6.68	24.31134	0.433822	0.130841	0.017655	0.134936	0.17036	
-31	6.68	24.31134	0.441309	0.112136	0.015392	0.137265	0.1733	
-31	6.68	24.31134	0.351462	0.136961	0.014972	0.109319	0.138018	
-31	6.68	24.31134	0.396386	0.139531	0.017203	0.123292	0.155659	
-2	9.52	24.03351	101.1374	0.592455	18.63734	31.45779	32.71373	0.8
-3	9.52	24.05088	97.90292	0.543135	16.53939	30.45172	31.66751	0.9
-3	9.52	24.05088	97.66334	0.489132	14.85845	30.3772	31.59002	1.0
-4	9.52	24.05088	99.81966	0.439619	13.64926	31.04791	32.2875	1.1
-4	9.52	24.05088	93.59026	0.437238	12.72815	29.11032	30.27255	1.1
-4	9.52	24.05088	86.52229	0.447363	12.03938	26.9119	27.98635	1.1
-5	9.52	24.05088	78.01678	0.476228	11.5563	24.26634	25.23518	1.0
-5	9.52	24.05088	71.66758	0.503589	11.22574	22.29149	23.18147	1.0
-5	6.68	24.05088	67.59451	0.52072	10.94793	21.0246	26.54411	
-5	6.68	24.05088	67.59451	0.499737	10.50677	21.0246	26.54411	
-6	9.52	24.05088	66.99553	0.478542	9.971986	20.83829	21.67026	1.0

-6	9.52	24.05088	66.39655	0.455414	9.405202	20.65198	21.47652	1.1
-6	9.52	24.05088	64.59961	0.441199	8.865046	20.09306	20.89528	1.1
-6	9.52	24.06824	64.24022	0.416199	8.316186	19.98127	20.77903	1.1
-7	9.52	24.05088	62.80267	0.396992	7.754897	19.53415	20.31405	1.2
-7	9.52	24.06824	60.64634	0.392964	7.412653	18.86344	19.61656	1.2
-7	9.52	24.06824	58.60981	0.399131	7.27615	18.22999	18.95783	1.2
-7	9.52	24.06824	56.93266	0.407627	7.218396	17.70833	18.41534	1.2
-8	9.52	24.06824	55.7347	0.410257	7.112102	17.33572	18.02785	1.2
-8	9.52	24.06824	54.89613	0.403382	6.887704	17.07489	17.75661	1.2
-8	9.52	24.0856	53.69817	0.392314	6.552541	16.70228	17.36912	1.2
-8	9.52	24.0856	52.38041	0.378776	6.171176	16.2924	16.94288	1.3
-9	9.52	24.0856	51.06265	0.3651	5.798701	15.88252	16.51664	1.3
-9	9.52	24.10297	50.10428	0.349465	5.446215	15.58443	16.20665	1.4
-9	9.52	24.10297	49.14591	0.335172	5.123555	15.28634	15.89665	1.4
-9	9.52	24.12033	47.46877	0.326928	4.826982	14.76468	15.35417	1.5
-10	9.52	24.12033	45.91142	0.320336	4.574491	14.28029	14.85043	1.5
-10	9.52	24.12033	43.87489	0.318795	4.350542	13.64684	14.1917	1.5
-10	9.52	24.1377	42.07794	0.316824	4.146567	13.08792	13.61046	1.5
-11	9.52	24.1377	40.4008	0.315294	3.962062	12.56626	13.06797	1.5
-11	9.52	24.1377	38.84345	0.314106	3.794984	12.08187	12.56424	1.5
-11	9.52	24.15506	37.4059	0.312892	3.640413	11.63473	12.09925	1.5
-11	9.52	24.15506	36.20793	0.309592	3.486663	11.26211	11.71176	1.5
-12	9.52	24.17243	35.00997	0.306259	3.33501	10.8895	11.32427	1.6
-12	9.52	24.17243	34.1714	0.299142	3.179481	10.62867	11.05302	1.6
-12	9.52	24.18979	33.21303	0.293713	3.034226	10.33058	10.74303	1.6
-12	9.52	24.18979	32.13486	0.29027	2.901313	9.995226	10.39429	1.6
-13	9.52	24.18979	31.0567	0.28772	2.779335	9.659877	10.04555	1.7
-13	9.52	24.20715	30.33792	0.283258	2.672907	9.436309	9.813052	1.7
-13	9.52	24.20715	29.49935	0.28056	2.574274	9.175479	9.54181	1.7
-13	9.52	24.20715	28.66078	0.27853	2.482995	8.914648	9.270568	1.7
-14	9.52	24.22452	27.70241	0.278455	2.399319	8.616556	8.960575	1.7
-14	9.52	24.22452	26.62424	0.2798	2.31708	8.281205	8.611832	1.7
-14	9.52	24.22452	25.78567	0.279531	2.241942	8.020375	8.340589	1.7
-15	9.52	24.22452	24.9471	0.27808	2.157772	7.759547	8.069347	1.7
-15	9.52	24.24188	23.86893	0.278351	2.066535	7.424193	7.720604	1.7
-15	9.52	24.24188	22.99293	0.277066	1.981496	7.15172	7.437254	1.7
-15	9.52	24.24188	22.1244	0.276523	1.902917	6.881576	7.156321	1.7
-16	9.52	24.24188	21.43558	0.274397	1.829492	6.667322	6.933517	1.7
-16	9.52	24.24188	20.79916	0.272468	1.762697	6.469371	6.727661	1.8
-16	9.52	24.24188	20.26008	0.270397	1.703958	6.301696	6.553291	1.8
-17	9.52	24.24188	19.70602	0.269704	1.653114	6.12936	6.374076	1.8
-17	9.52	24.25925	18.88991	0.272033	1.598334	5.875517	6.110098	1.8
-17	9.52	24.24188	18.31339	0.271097	1.544221	5.696196	5.923618	1.8
-18	9.52	24.25925	17.75933	0.272475	1.505113	5.523864	5.744403	1.8
-18	9.52	24.25925	17.14538	0.273892	1.460638	5.332898	5.545816	1.7
-18	9.52	24.25925	16.70363	0.273878	1.42293	5.195497	5.402928	1.7
-18	9.52	24.25925	16.29932	0.269968	1.368669	5.069739	5.272151	1.8
-19	9.52	24.27661	15.77521	0.270512	1.327327	4.906721	5.102623	1.8
-19	9.52	24.27661	15.25859	0.271374	1.287949	4.746032	4.935518	1.8
-19	9.52	24.27661	14.64463	0.274328	1.24958	4.555068	4.736927	1.7
-20	9.52	24.27661	14.09058	0.276131	1.21021	4.382734	4.557715	1.7
-20	9.52	24.29397	13.46165	0.279478	1.170203	4.187111	4.354283	1.7
-20	9.52	24.29397	12.93754	0.281142	1.131342	4.024093	4.184755	1.7
-21	9.52	24.29397	12.35353	0.283539	1.089483	3.842443	3.995852	1.7
-21	9.52	24.29397	11.9043	0.28272	1.046831	3.702713	3.850545	1.7
-21	9.52	24.31134	11.35773	0.283497	1.001511	3.532708	3.673752	1.7
-21	9.52	24.31134	11.03578	0.280634	0.963294	3.432567	3.569615	1.7
-22	9.52	24.31134	10.68388	0.278855	0.926666	3.323113	3.45579	1.7
-22	9.52	24.31134	10.29454	0.279345	0.894467	3.202014	3.329855	1.7
-22	9.52	24.31134	9.905201	0.280465	0.864089	3.080914	3.20392	1.7
-23	9.52	24.31134	9.5533	0.281216	0.835622	2.971459	3.090094	1.7
-23	9.52	24.3287	9.25381	0.280741	0.808059	2.878306	2.993222	1.7
-23	9.52	24.3287	8.856985	0.283792	0.781811	2.754876	2.864865	1.7
-23	9.52	24.3287	8.579957	0.283855	0.757527	2.668711	2.775258	1.7
-24	9.52	24.3287	8.310415	0.284038	0.7342	2.584871	2.688073	1.7
-24	9.52	24.3287	8.018413	0.285292	0.711533	2.494047	2.593622	1.7
-24	9.52	24.3287	7.72641	0.28604	0.687419	2.403222	2.499172	1.7
-25	9.52	24.3287	7.434407	0.287472	0.66475	2.312397	2.404721	1.7
-25	9.52	24.3287	7.127429	0.288835	0.640322	2.216916	2.305426	1.7
-25	9.52	24.3287	6.88035	0.288818	0.618089	2.140065	2.225506	1.7
-26	9.52	24.3287	6.573372	0.291493	0.595982	2.044583	2.126212	1.6

-26	9.52	24.3287	6.341267	0.291335	0.574626	1.972387	2.051136	1.6
-26	9.52	24.34607	6.11665	0.290788	0.55323	1.902523	1.978481	1.6
-26	9.52	24.34607	5.78721	0.295906	0.532647	1.800055	1.871921	1.6
-27	9.52	24.3287	5.577567	0.295272	0.512251	1.734847	1.80411	1.6
-27	9.52	24.3287	5.315513	0.297025	0.491082	1.653337	1.719347	1.6
-27	9.52	24.3287	5.150794	0.294108	0.471191	1.602102	1.666067	1.6
-28	9.52	24.3287	4.903714	0.29679	0.452679	1.525251	1.586147	1.6
-28	9.52	24.3287	4.738995	0.295377	0.43539	1.474018	1.532867	1.6
-28	9.52	24.3287	4.521864	0.298439	0.419749	1.40648	1.462635	1.6
-28	9.52	24.34607	4.439504	0.292609	0.404052	1.380864	1.435994	1.6
-29	9.52	24.3287	4.252323	0.294219	0.389146	1.322643	1.375449	1.6
-29	9.52	24.34607	4.162476	0.2905	0.37611	1.294696	1.346387	1.6
-29	9.52	24.34607	3.997756	0.291432	0.362385	1.243462	1.293107	1.6
-30	9.52	24.34607	3.945345	0.284305	0.348888	1.22716	1.276155	1.7
-30	9.52	24.34607	3.7956	0.283655	0.334878	1.180584	1.227718	1.7
-30	9.52	24.34607	3.638368	0.284705	0.322195	1.131678	1.17686	1.7
-30	9.52	24.34607	3.518572	0.283886	0.310689	1.094416	1.138111	1.7
-31	9.52	24.34607	3.346365	0.287897	0.299659	1.040853	1.08241	1.7
-31	9.52	24.34607	3.151696	0.296496	0.290656	0.980304	1.019442	1.6
-31	9.52	24.34607	3.061849	0.296927	0.282781	0.952357	0.990381	1.6
-32	9.52	24.34607	2.874668	0.308521	0.27586	0.894137	0.929835	1.6
-32	9.52	24.34607	2.620101	0.330217	0.269112	0.814956	0.847493	1.4
-32	9.52	24.34607	2.597639	0.326127	0.263501	0.80797	0.840228	1.5
-32	9.52	24.34607	2.492817	0.329588	0.255551	0.775366	0.806322	1.5
-33	9.52	24.34607	2.447894	0.323436	0.246262	0.761393	0.791792	1.5
-33	9.52	24.34607	2.373021	0.318721	0.235249	0.738105	0.767573	1.5
-33	9.52	24.34607	2.275687	0.315182	0.223095	0.70783	0.73609	1.5
-33	9.52	24.34607	2.253225	0.301989	0.211647	0.700843	0.728824	1.6
-34	9.52	24.34607	2.170866	0.299283	0.202084	0.675226	0.702185	1.6
-34	9.52	24.34607	2.066044	0.297523	0.191195	0.642622	0.668279	1.6
-34	9.52	24.34607	2.073531	0.283561	0.182883	0.644951	0.670701	1.7
-35	9.52	24.34607	1.991171	0.283325	0.175472	0.619334	0.644061	1.7
-35	9.52	24.34607	1.863888	0.289203	0.167664	0.579744	0.60289	1.7
-35	9.52	24.34607	1.826452	0.285241	0.162045	0.5681	0.590781	1.7
-35	9.52	24.34607	1.72163	0.295212	0.158085	0.535496	0.556876	1.6
-36	9.52	24.34607	1.661732	0.296885	0.15345	0.516865	0.537501	1.6
-36	9.52	24.34607	1.654245	0.289811	0.149118	0.514536	0.535079	1.7
-36	9.52	24.34607	1.564398	0.297553	0.144786	0.48659	0.506018	1.6
-36	9.52	24.34607	1.429627	0.31434	0.139778	0.444671	0.462425	1.5
-37	9.52	24.34607	1.467063	0.29517	0.134691	0.456315	0.474534	1.6
-37	9.52	24.34607	1.392191	0.294985	0.127736	0.433027	0.450316	1.6
-37	9.52	24.34607	1.309831	0.292989	0.119367	0.40741	0.423676	1.6
-37	9.52	24.34607	1.287369	0.271367	0.108662	0.400423	0.41641	1.8
-38	9.52	24.34607	1.190035	0.267053	0.098849	0.370149	0.384927	1.8
-38	9.52	24.34607	1.115162	0.253201	0.087825	0.34686	0.360708	1.9
-38	9.52	24.34607	1.107675	0.218754	0.075368	0.344531	0.358287	2.2
-38	9.52	24.34607	1.167573	0.164191	0.059628	0.363162	0.377661	2.9
-38	9.52	24.34607	1.17506	0.12579	0.045975	0.365491	0.380083	3.8
-38	9.52	24.34607	1.137624	0.104953	0.037137	0.353847	0.367974	4.6
-38	9.52	24.34607	1.17506	0.081486	0.029782	0.365491	0.380083	5.9
-38	9.52	24.34607	1.197522	0.070849	0.02639	0.372477	0.387348	6.8
-38	9.52	24.36343	1.190035	0.074378	0.027531	0.370148	0.384927	6.4
-38	9.52	24.36343	1.115162	0.058948	0.020447	0.34686	0.360708	8.1
-38	9.52	24.36343	1.197522	0.051433	0.019158	0.372477	0.387348	9.3
-38	9.52	24.36343	1.152599	0.056582	0.020285	0.358504	0.372818	8.5
-38	9.52	24.36343	1.137624	0.069549	0.02461	0.353847	0.367974	6.9
-38	9.52	24.36343	1.070239	0.084442	0.02811	0.332887	0.346178	5.7
-3	14.04	24.24188	52.02102	0.672193	10.87649	16.18062	29.00434	0.8
-3	14.04	24.24188	47.94795	0.639195	9.53278	14.91373	26.73339	0.8
-4	14.04	24.24188	43.99468	0.605365	8.283881	13.68411	24.52925	0.9
-4	14.04	24.25925	40.64039	0.573034	7.243599	12.64079	22.65906	0.9
-4	14.04	24.25925	37.4059	0.551082	6.411692	11.63473	20.85567	1.0
-5	14.04	24.25925	34.89017	0.534771	5.803458	10.85224	19.45302	1.0
-5	14.04	24.27661	32.13486	0.542149	5.4189	9.995225	17.9168	1.0
-5	14.04	24.27661	29.13996	0.572841	5.192057	9.063691	16.24699	0.9
-6	14.04	24.27661	27.10343	0.617202	5.203172	8.430254	15.11153	0.9
-6	14.04	24.27661	24.8273	0.71047	5.486448	7.722282	13.84247	0.8
-6	14.04	24.29397	22.61108	0.823826	5.793924	7.032947	12.60681	0.7
-6	14.04	24.29397	21.45055	0.877649	5.855652	6.671977	11.95976	0.6
-7	14.04	24.29397	20.52213	0.883318	5.638399	6.383203	11.44212	0.6
-7	14.04	24.29397	19.71351	0.872575	5.350359	6.131692	10.99127	0.6

-7	14.04	24.29397	18.98724	0.858706	5.071339	5.905793	10.58634	0.6
-8	14.04	24.29397	18.44816	0.831855	4.773285	5.738118	10.28578	0.7
-8	14.04	24.29397	18.10375	0.788889	4.44223	5.630992	10.09375	0.7
-8	14.04	24.29397	17.83421	0.735358	4.079141	5.547151	9.943469	0.7
-8	14.04	24.31134	17.51225	0.684986	3.731127	5.447012	9.76396	0.8
-9	14.04	24.31134	17.07051	0.646756	3.434021	5.30961	9.517668	0.8
-9	14.04	24.31134	16.56886	0.616844	3.178955	5.153578	9.237973	0.9
-9	14.04	24.31134	16.17952	0.586249	2.950285	5.032478	9.020896	0.9
-10	14.04	24.31134	15.53562	0.569174	2.750362	4.832198	8.66189	1.0
-10	14.04	24.31134	14.99654	0.550493	2.567789	4.664523	8.361325	1.0
-10	14.04	24.31134	14.37509	0.534057	2.387893	4.471229	8.014836	1.0
-10	14.04	24.31134	13.86596	0.51761	2.232382	4.312868	7.73097	1.0
-11	14.04	24.31134	13.27447	0.50317	2.077532	4.12889	7.401185	1.1
-11	14.04	24.31134	12.68297	0.491447	1.938717	3.944913	7.071394	1.1
-11	14.04	24.31134	12.04656	0.482668	1.808539	3.746961	6.716563	1.1
-12	14.04	24.31134	11.46255	0.474614	1.692148	3.565312	6.390948	1.1
-12	14.04	24.29397	10.90101	0.469079	1.590483	3.39065	6.077861	1.2
-12	14.04	24.31134	10.33946	0.467233	1.502615	3.215987	5.764769	1.2
-12	14.04	24.29397	9.852791	0.459808	1.409132	3.064612	5.493427	1.2
-13	14.04	24.31134	9.455966	0.455427	1.339495	2.941183	5.272177	1.2
-13	14.04	24.29397	9.163963	0.446209	1.271856	2.85036	5.10937	1.2
-13	14.04	24.31134	8.827037	0.438273	1.203306	2.745561	4.921517	1.2
-14	14.04	24.31134	8.57247	0.424834	1.13277	2.666381	4.779583	1.3
-14	14.04	24.31134	8.287954	0.410869	1.059172	2.577886	4.620951	1.3
-14	14.04	24.29397	8.085798	0.391228	0.983941	2.515007	4.508239	1.4
-14	14.04	24.31134	7.748871	0.379543	0.914778	2.410209	4.320385	1.4
-15	14.04	24.31134	7.374509	0.372618	0.854699	2.293767	4.11166	1.5
-15	14.04	24.31134	7.007633	0.368358	0.802894	2.179654	3.907108	1.5
-15	14.04	24.29397	6.610808	0.370749	0.762344	2.056226	3.685858	1.5
-16	14.04	24.31134	6.213984	0.378485	0.731534	1.932798	3.464609	1.4
-16	14.04	24.31134	5.899519	0.384224	0.705045	1.834986	3.289279	1.4
-16	14.04	24.31134	5.847108	0.372534	0.677522	1.818685	3.260057	1.5
-16	14.04	24.31134	5.704851	0.364734	0.647198	1.774437	3.180741	1.5
-17	14.04	24.31134	5.510182	0.355205	0.608781	1.713887	3.072204	1.5
-17	14.04	24.31134	5.293051	0.349867	0.576004	1.646351	2.951142	1.5
-17	14.04	24.31134	5.060946	0.346796	0.545911	1.574157	2.821732	1.6
-18	14.04	24.31134	4.836329	0.344846	0.518749	1.504291	2.696497	1.6
-18	14.04	24.31134	4.738995	0.335847	0.495044	1.474017	2.642228	1.6
-18	14.04	24.31134	4.521864	0.337869	0.475206	1.406481	2.521167	1.6
-18	14.04	24.31134	4.297246	0.344924	0.46103	1.336616	2.395931	1.6
-19	14.04	24.31134	4.102578	0.352537	0.449861	1.276066	2.287394	1.5
-19	14.04	24.31134	3.922884	0.358682	0.437654	1.220174	2.187205	1.5
-19	14.04	24.31134	3.840524	0.354152	0.423054	1.194557	2.141285	1.5
-19	14.04	24.31134	3.862985	0.338006	0.406128	1.201543	2.153808	1.6
-20	14.04	24.31134	3.773138	0.33106	0.388531	1.173597	2.103714	1.6
-20	14.04	24.31134	3.645855	0.329867	0.374072	1.134007	2.032748	1.6
-20	14.04	24.31134	3.526059	0.327609	0.359303	1.096745	1.965955	1.7
-21	14.04	24.31134	3.368826	0.329009	0.344749	1.04784	1.87829	1.6
-21	14.04	24.31134	3.234056	0.329119	0.331067	1.005921	1.803149	1.6
-21	14.04	24.31134	3.016925	0.338424	0.317572	0.938385	1.682087	1.6
-22	14.04	24.31134	2.86718	0.343346	0.306198	0.891808	1.598597	1.6
-22	14.04	24.31134	2.717435	0.349552	0.295452	0.845231	1.515107	1.6
-22	14.04	24.31134	2.620101	0.347887	0.283513	0.814956	1.460838	1.6
-22	14.04	24.31134	2.440407	0.355808	0.270081	0.759064	1.36065	1.5
-23	14.04	24.31134	2.343072	0.354547	0.25839	0.728789	1.30638	1.5
-23	14.04	24.31134	2.088506	0.378333	0.245768	0.649609	1.164447	1.4
-23	14.04	24.31134	2.028608	0.373921	0.235936	0.630978	1.131051	1.4
-24	14.04	24.31134	1.856401	0.389832	0.225094	0.577415	1.035037	1.4
-24	14.04	24.3287	1.818964	0.382231	0.216255	0.565771	1.014164	1.4
-24	14.04	24.3287	1.684194	0.389992	0.204298	0.523852	0.939023	1.4
-24	14.04	24.3287	1.744092	0.354206	0.19215	0.542482	0.972419	1.5
-25	14.04	24.3287	1.661732	0.344598	0.178111	0.516865	0.926499	1.6
-25	14.04	24.3287	1.601834	0.333384	0.166103	0.498234	0.893103	1.6
-25	14.04	24.3287	1.526961	0.329397	0.156446	0.474946	0.851358	1.6
-25	14.04	24.3287	1.332293	0.358816	0.148692	0.414396	0.74282	1.5
-26	14.04	24.3287	1.369729	0.338745	0.144319	0.426041	0.763693	1.6
-26	14.04	24.3287	1.25742	0.35488	0.138796	0.391108	0.701075	1.5
-26	14.04	24.34607	1.294856	0.337586	0.135963	0.402752	0.721947	1.6
-27	14.04	24.34607	1.152599	0.365	0.130854	0.358504	0.642632	1.5
-27	14.04	24.34607	1.190035	0.342171	0.126654	0.370149	0.663504	1.6
-27	14.04	24.34607	1.062752	0.364021	0.12033	0.330558	0.592538	1.5

-27	14.04	24.34607	1.12265	0.327106	0.114222	0.349189	0.625934	1.7
-28	14.04	24.34607	1.032802	0.340601	0.109416	0.321243	0.575839	1.6
-28	14.04	24.34607	1.025315	0.325766	0.103892	0.318914	0.571665	1.7
-28	14.04	24.34607	0.980392	0.329709	0.100542	0.304941	0.546618	1.6
-28	14.04	24.34607	0.868083	0.351112	0.094803	0.270009	0.484	1.5
-29	14.04	24.34607	0.935468	0.311102	0.090521	0.290968	0.521571	1.7
-29	14.04	24.34607	0.785723	0.350732	0.085716	0.244391	0.43808	1.5
-29	14.04	24.34607	0.823159	0.318501	0.081547	0.256035	0.458953	1.7
-29	14.04	24.34607	0.755774	0.331358	0.077894	0.235076	0.421382	1.6
-30	14.04	24.36343	0.778236	0.309059	0.074812	0.242062	0.433906	1.8
-30	14.04	24.36343	0.740799	0.307453	0.070843	0.230418	0.413033	1.8
-30	14.04	24.36343	0.650952	0.339893	0.068819	0.202472	0.362939	1.6
-30	14.04	24.36343	0.673414	0.312349	0.065424	0.209459	0.375462	1.7
-31	14.04	24.36343	0.561105	0.35496	0.06195	0.174526	0.312844	1.5
-31	14.04	24.36343	0.613516	0.315344	0.060177	0.190828	0.342066	1.7
-31	14.04	24.36343	0.546131	0.33393	0.056724	0.169869	0.304495	1.6
-31	14.04	24.36343	0.546131	0.319186	0.05422	0.169868	0.304495	1.7
-32	14.04	24.36343	0.553618	0.29549	0.050883	0.172197	0.30867	1.8
-32	14.04	24.36343	0.426335	0.373503	0.049529	0.132607	0.237703	1.5
-32	14.04	24.36343	0.486233	0.317268	0.047983	0.151238	0.271099	1.7
-32	14.04	24.36343	0.486233	0.301516	0.045601	0.151238	0.271099	1.8
-33	14.04	24.36343	0.351462	0.394215	0.043095	0.109319	0.195958	1.4
-33	14.04	24.36343	0.433822	0.298366	0.04026	0.134936	0.241878	1.8
-33	14.04	24.36343	0.426335	0.298171	0.03954	0.132607	0.237703	1.8
-34	14.04	24.36343	0.291564	0.423587	0.038414	0.090688	0.162562	1.3
-34	14.04	24.36343	0.366437	0.323086	0.036824	0.113976	0.204307	1.7
-34	14.04	24.36343	0.329	0.338255	0.034614	0.102332	0.183434	1.6
-34	14.04	24.36343	0.343975	0.302112	0.032323	0.10699	0.191783	1.8
-35	14.04	24.36343	0.239153	0.405751	0.030182	0.074386	0.13334	1.3
-35	14.04	24.36343	0.239153	0.37752	0.028082	0.074386	0.13334	1.4
-35	14.04	24.34607	0.27659	0.299561	0.025771	0.08603	0.154213	1.8
-36	14.04	24.34607	0.261615	0.297194	0.024183	0.081373	0.145864	1.8
-36	14.04	24.34607	0.254128	0.287425	0.022719	0.079044	0.141689	1.9
-36	14.04	24.34607	0.141819	0.473164	0.020872	0.044111	0.079071	1.1
-36	14.04	24.36343	0.141819	0.453605	0.020009	0.044111	0.079071	1.2
-37	14.04	24.36343	0.156793	0.376693	0.018371	0.048769	0.08742	1.4
-37	14.04	24.36343	0.171768	0.32413	0.017317	0.053427	0.095769	1.7
-37	14.04	24.36343	0.19423	0.258841	0.015637	0.060413	0.108293	2.1
-38	14.04	24.36343	0.179255	0.264069	0.014723	0.055756	0.099944	2.1
-38	14.04	24.36343	0.179255	0.247668	0.013809	0.055756	0.099944	2.2
-38	14.04	24.36343	0.186743	0.220206	0.012791	0.058084	0.104118	2.5
-38	14.04	24.36343	0.171768	0.226222	0.012086	0.053427	0.095769	2.4
-39	14.04	24.36343	0.156793	0.22756	0.011098	0.048769	0.08742	2.4
-39	14.04	24.36343	0.141819	0.253859	0.011198	0.044111	0.079071	2.1
-3	21.83	24.27661	207.3966	1.175896	75.8554	64.50859	31.95212	1.7
-3	21.83	24.27661	182.3592	1.182618	67.07928	56.721	28.09478	1.7
-3	21.83	24.27661	159.2385	1.269135	62.85967	49.52954	24.53274	1.6
-4	21.83	24.29397	149.6548	1.339648	62.35881	46.54865	23.05625	1.5
-4	21.83	24.29397	140.6701	1.467216	64.19663	43.75404	21.67204	1.4
-4	21.83	24.29397	131.5656	1.613318	66.02049	40.92218	20.26938	1.3
-4	21.83	24.29397	124.0185	1.812699	69.92434	38.57471	19.10665	1.1
-5	21.83	24.29397	118.0287	2.000434	73.43922	36.71164	18.18384	1.0
-5	21.83	24.29397	115.2734	2.053115	73.61366	35.85462	17.75935	1.0
-5	21.83	24.29397	112.9972	2.005809	70.49748	35.14665	17.40867	1.0
-6	21.83	24.29397	109.8825	1.934691	66.1236	34.17786	16.92882	1.1
-6	21.83	24.29397	105.4501	1.865235	61.1782	32.79919	16.24595	1.1
-6	21.83	24.29397	100.0593	1.809173	56.30584	31.12242	15.41542	1.1
-6	21.83	24.29397	94.78823	1.73247	51.0783	29.48293	14.60335	1.2
-7	21.83	24.29397	89.63699	1.648185	45.95253	27.88069	13.80973	1.2
-7	21.83	24.29397	84.84515	1.54977	40.8988	26.39024	13.07149	1.3
-7	21.83	24.29397	80.2929	1.450626	36.22838	24.97431	12.37016	1.4
-8	21.83	24.29397	75.98024	1.363586	32.22548	23.6329	11.70574	1.5
-8	21.83	24.29397	72.38636	1.26461	28.47277	22.51506	11.15205	1.6
-8	21.83	24.29397	68.79247	1.170903	25.05407	21.39722	10.59837	1.8
-8	21.83	24.29397	64.47981	1.074344	21.54683	20.0558	9.933946	1.9
-9	21.83	24.29397	59.56817	1.024026	18.97324	18.52809	9.177244	2.0
-9	21.83	24.29397	55.8545	0.971426	16.87657	17.37298	8.605106	2.1
-9	21.83	24.29397	53.45857	0.902993	15.01474	16.62776	8.235982	2.3
-10	21.83	24.29397	51.78143	0.821425	13.22995	16.1061	7.977597	2.5
-10	21.83	24.29397	50.82306	0.724578	11.45413	15.808	7.829947	2.8
-10	21.83	24.29397	48.90632	0.644755	9.807903	15.21182	7.534649	3.2

-11	21.83	24.29397	45.79162	0.593594	8.454568	14.24302	7.054789	3.5
-11	21.83	24.29397	42.31754	0.566419	7.45546	13.16245	6.519562	3.6
-11	21.83	24.29397	39.08304	0.564973	6.868031	12.15639	6.021246	3.6
-11	21.83	24.29397	36.32773	0.582351	6.580198	11.29937	5.596755	3.5
-12	21.83	24.29397	34.05161	0.60432	6.400603	10.59141	5.246089	3.4
-12	21.83	24.29397	33.09324	0.589623	6.069177	10.29332	5.09844	3.5
-12	21.83	24.29397	32.13486	0.558213	5.57947	9.995231	4.950789	3.7
-12	21.83	24.29397	31.1765	0.521141	5.053575	9.697134	4.803142	3.9
-13	21.83	24.29397	29.73894	0.493874	4.56834	9.250005	4.581667	4.2
-13	21.83	24.29397	28.18159	0.475317	4.166441	8.765604	4.341737	4.3
-13	21.83	24.29397	26.62424	0.465468	3.854633	8.281204	4.101807	4.4
-14	21.83	24.29397	25.66588	0.44877	3.582582	7.983115	3.95416	4.6
-14	21.83	24.29397	25.0669	0.424848	3.31246	7.796808	3.861879	4.8
-14	21.83	24.29397	24.34812	0.401577	3.04124	7.57324	3.751142	5.1
-14	21.83	24.29397	23.49457	0.372548	2.722488	7.307751	3.619641	5.5
-15	21.83	24.29397	22.55866	0.349691	2.453658	7.016648	3.475452	5.9
-15	21.83	24.29397	21.47301	0.332837	2.223008	6.678966	3.308194	6.2
-15	21.83	24.29397	20.23013	0.323132	2.033267	6.292378	3.116712	6.4
-16	21.83	24.29397	19.11453	0.314925	1.872349	5.945382	2.94484	6.5
-16	21.83	24.29397	17.88662	0.314549	1.749978	5.563454	2.755664	6.5
-16	21.83	24.29397	16.69614	0.318237	1.652658	5.193169	2.572256	6.5
-16	21.83	24.29397	15.58803	0.318163	1.542615	4.848501	2.401537	6.5
-17	21.83	24.29397	14.18791	0.326278	1.439869	4.413009	2.18583	6.3
-17	21.83	24.29397	13.18462	0.328794	1.348367	4.100944	2.031261	6.2
-18	21.83	24.29397	12.43589	0.323233	1.250285	3.86806	1.915909	6.4
-18	21.83	24.29397	11.79199	0.313346	1.149283	3.66778	1.816708	6.6
-18	21.83	24.29397	11.13311	0.304289	1.053703	3.462842	1.715199	6.7
-18	21.83	24.29397	10.45177	0.298295	0.969732	3.250919	1.61023	6.9
-19	21.83	24.29397	9.905201	0.291496	0.898073	3.080913	1.526024	7.0
-19	21.83	24.29397	9.321196	0.289281	0.838703	2.899266	1.43605	7.1
-19	21.83	24.29397	8.647343	0.294821	0.792971	2.689669	1.332235	7.0
-20	21.83	24.29397	8.190619	0.29732	0.757455	2.547611	1.26187	6.9
-20	21.83	24.29397	7.80877	0.300405	0.729634	2.428839	1.203042	6.8
-20	21.83	24.29397	7.359534	0.308299	0.70573	2.289109	1.133831	6.7
-21	21.83	24.29397	6.902812	0.317942	0.682638	2.147051	1.063467	6.5
-21	21.83	24.29397	6.535936	0.322846	0.656325	2.032937	1.006945	6.4
-21	21.83	24.29397	6.139112	0.325717	0.621959	1.909509	0.945809	6.3
-22	21.83	24.29397	5.794698	0.32584	0.587288	1.802382	0.892748	6.3
-22	21.83	24.29397	5.457771	0.325364	0.552334	1.697586	0.84084	6.3
-22	21.83	24.27661	5.090896	0.328586	0.520306	1.583472	0.784318	6.2
-22	21.83	24.29397	4.671609	0.340498	0.494764	1.453058	0.719722	6.0
-23	21.83	24.29397	4.402068	0.344804	0.472112	1.369219	0.678195	6.0
-23	21.83	24.27661	4.080116	0.35138	0.445929	1.269079	0.628594	5.8
-23	21.83	24.27661	3.982781	0.337117	0.417622	1.238804	0.613599	6.1
-24	21.83	24.27661	3.788113	0.329398	0.388115	1.178255	0.583608	6.2
-24	21.83	24.29397	3.638368	0.317647	0.359475	1.131678	0.560537	6.5
-24	21.83	24.29397	3.398776	0.312819	0.330698	1.057155	0.523625	6.6
-24	21.83	24.29397	3.353852	0.29102	0.303587	1.043182	0.516704	7.1
-25	21.83	24.29397	3.211594	0.279345	0.279047	0.998934	0.494787	7.3
-25	21.83	24.29397	3.039387	0.272052	0.25719	0.945371	0.468257	7.5
-25	21.83	24.29397	2.897129	0.266622	0.240259	0.901123	0.44634	7.7
-26	21.83	24.29397	2.642563	0.277383	0.227993	0.821943	0.407121	7.4
-26	21.83	24.29397	2.597639	0.270858	0.218845	0.80797	0.4002	7.6
-26	21.83	24.29397	2.410458	0.28144	0.211009	0.749749	0.371362	7.3
-26	21.83	24.29397	2.358047	0.278339	0.204147	0.733447	0.363288	7.4
-27	21.83	24.29397	2.283174	0.278123	0.197512	0.710159	0.351752	7.4
-27	21.83	24.29397	2.140916	0.284297	0.189316	0.665911	0.329836	7.2
-27	21.83	24.29397	2.133429	0.271407	0.180101	0.663582	0.328682	7.6
-28	21.83	24.29397	1.946248	0.281235	0.170249	0.605361	0.299845	7.3
-28	21.83	24.29397	1.961222	0.26412	0.161118	0.610019	0.302152	7.8
-28	21.83	24.29397	1.863888	0.262587	0.152233	0.579744	0.287156	7.8
-28	21.83	24.27661	1.676707	0.277492	0.144719	0.521523	0.258318	7.4
-29	21.83	24.29397	1.616808	0.275339	0.138466	0.502892	0.24909	7.5
-29	21.83	24.27661	1.467063	0.289215	0.131973	0.456315	0.22602	7.1
-29	21.83	24.29397	1.429627	0.28404	0.126304	0.444671	0.220252	7.2
-30	21.83	24.29397	1.324805	0.290353	0.119645	0.412067	0.204103	7.1
-30	21.83	24.27661	1.249933	0.290084	0.112779	0.388779	0.192568	7.1
-30	21.83	24.29397	1.137624	0.301356	0.106634	0.353847	0.175266	6.8
-31	21.83	24.27661	1.107675	0.293412	0.10109	0.344531	0.170652	7.0
-31	21.83	24.29397	1.025315	0.29587	0.094357	0.318914	0.157963	6.9
-31	21.83	24.29397	1.017828	0.281735	0.089193	0.316585	0.15681	7.3

-31	21.83	24.29397	0.972904	0.271387	0.082125	0.302612	0.149888	7.6
-32	21.83	24.29397	0.823159	0.298121	0.07633	0.256035	0.126818	6.9
-32	21.83	24.29397	0.800698	0.295317	0.073548	0.249049	0.123358	7.0
-32	21.83	24.29397	0.733312	0.302854	0.069078	0.228089	0.112976	6.8
-32	21.83	24.29397	0.740799	0.28555	0.065796	0.230418	0.11413	7.2
-33	21.83	24.29397	0.763261	0.261749	0.062141	0.237405	0.11759	7.8
-33	21.83	24.29397	0.628491	0.304947	0.059613	0.195486	0.096827	6.7
-33	21.83	24.29397	0.643465	0.288853	0.057812	0.200143	0.099134	7.1
-34	21.83	24.29397	0.628491	0.285088	0.055731	0.195486	0.096827	7.2
-34	21.83	24.29397	0.508695	0.34153	0.054038	0.158224	0.078371	6.0
-34	21.83	24.29397	0.57608	0.290346	0.052025	0.179184	0.088753	7.1
-34	21.83	24.29397	0.561105	0.288853	0.050412	0.174526	0.086446	7.1
-35	21.83	24.29397	0.426335	0.359896	0.047725	0.132607	0.065682	5.7
-35	21.83	24.29397	0.478746	0.308791	0.045982	0.148909	0.073757	6.6
-35	21.83	24.29397	0.448797	0.318407	0.044448	0.139594	0.069143	6.4
-36	21.83	24.29397	0.463771	0.300173	0.0433	0.144251	0.07145	6.8
-36	21.83	24.29397	0.329	0.40756	0.041707	0.102332	0.050687	5.0
-36	21.83	24.29397	0.343975	0.367554	0.039325	0.10699	0.052994	5.6
-37	21.83	24.29397	0.351462	0.334453	0.036562	0.109319	0.054147	6.1
-37	21.83	24.29397	0.366437	0.298477	0.034019	0.113976	0.056454	6.9
-37	21.83	24.29397	0.336488	0.295137	0.030889	0.104661	0.05184	7.0
-37	21.83	24.29397	0.329	0.272176	0.027852	0.102332	0.050687	7.5
-38	21.83	24.29397	0.321513	0.263226	0.026323	0.100003	0.049533	7.8
-38	21.83	24.29397	0.246641	0.307498	0.02359	0.076715	0.037998	6.7
-38	21.83	24.29397	0.171768	0.408088	0.021803	0.053427	0.026463	5.0
-39	21.83	24.29397	0.164281	0.392539	0.020058	0.051098	0.02531	5.2
-39	21.83	24.29397	0.164281	0.374807	0.019152	0.051098	0.02531	5.5
-39	21.83	24.29397	0.179255	0.344228	0.019193	0.055756	0.027617	6.0
-40	21.83	24.29397	0.186743	0.317747	0.018456	0.058084	0.02877	6.5
-40	21.83	24.29397	0.19423	0.278755	0.01684	0.060413	0.029924	7.4
-40	21.83	24.29397	0.201717	0.249096	0.015629	0.062742	0.031077	8.2
-40	21.83	24.29397	0.186743	0.241734	0.014041	0.058084	0.02877	8.5
-41	21.83	24.29397	0.179255	0.23613	0.013166	0.055756	0.027617	8.7
-41	21.83	24.29397	0.164281	0.244679	0.012503	0.051098	0.02531	8.4
-41	21.83	24.29397	0.164281	0.263637	0.013471	0.051098	0.02531	7.8
-41	21.83	24.29397	0.141819	0.312464	0.013783	0.044111	0.021849	6.6
-42	21.83	24.29397	0.104383	0.402861	0.01308	0.032467	0.016082	5.1
-42	21.83	24.29397	0.059459	0.690539	0.012771	0.018494	0.00916	3.0
-42	21.83	24.29397	0.081921	0.482747	0.012301	0.025481	0.012621	4.3
-3	32.54	24.22452	226.8035	0.523647	36.94069	70.54498	11.66167	0.8
-3	32.54	24.22452	213.1468	0.486542	32.25635	66.29717	10.95948	0.8
-4	32.54	24.22452	194.4586	0.482832	29.2038	60.4844	9.99858	0.8
-4	32.54	24.24188	183.1978	0.481159	27.41732	56.98183	9.419577	0.8
-4	32.54	24.24188	183.1978	0.458461	26.12392	56.98184	9.419577	0.9
-4	32.54	24.24188	188.4688	0.428493	25.11882	58.62134	9.690599	0.9
-5	32.54	24.22452	189.4272	0.408979	24.09679	58.91942	9.739878	1.0
-5	32.54	24.24188	183.6769	0.405359	23.15851	57.13088	9.444212	1.0
-5	32.54	24.24188	180.4424	0.402327	22.58055	56.12482	9.277902	1.0
-6	32.54	24.24188	175.0516	0.421771	22.96461	54.44805	9.00072	1.0
-6	32.54	24.24188	171.0983	0.443184	23.58553	53.21843	8.797451	0.9
-6	32.54	24.24188	160.6761	0.473654	23.67163	49.97669	8.261567	0.9
-7	32.54	24.24188	146.4203	0.508198	23.14463	45.54259	7.528569	0.8
-7	32.54	24.24188	133.4824	0.535138	22.21804	41.51836	6.863335	0.8
-7	32.54	24.24188	123.6591	0.553906	21.30483	38.46292	6.358245	0.7
-8	32.54	24.24188	116.9505	0.566507	20.6074	36.37629	6.013305	0.7
-8	32.54	24.24188	112.1587	0.582025	20.30443	34.88583	5.766923	0.7
-8	32.54	24.24188	109.4034	0.598541	20.36764	34.02882	5.625252	0.7
-8	32.54	24.22452	108.6846	0.598533	20.23356	33.80526	5.588293	0.7
-9	32.54	24.22452	107.4866	0.583705	19.51481	33.43263	5.526695	0.7
-9	32.54	24.22452	104.4917	0.558175	18.14129	32.5011	5.372705	0.7
-9	32.54	24.20715	97.78313	0.547836	16.66212	30.41446	5.027767	0.7
-10	32.54	24.20715	88.91822	0.560136	15.49174	27.65713	4.571955	0.7
-10	32.54	24.20715	79.45432	0.610401	15.08513	24.71347	4.085344	0.7
-10	32.54	24.20715	71.42799	0.695362	15.44884	22.21696	3.67265	0.6
-10	32.54	24.20715	64.47981	0.786528	15.77444	20.0558	3.315392	0.5
-11	32.54	24.20715	59.56817	0.847844	15.70893	18.52808	3.062848	0.5
-11	32.54	24.18979	55.8545	0.876654	15.23009	17.37298	2.8719	0.5
-11	32.54	24.18979	52.62	0.885051	14.48556	16.36692	2.70559	0.5
-12	32.54	24.18979	49.5053	0.892373	13.74088	15.39813	2.54544	0.5
-12	32.54	24.18979	47.10938	0.890269	13.04503	14.6529	2.422248	0.5
-12	32.54	24.18979	45.55203	0.864059	12.24242	14.1685	2.342173	0.5

-12	32.54	24.18979	44.23427	0.814611	11.20793	13.75863	2.274417	0.5
-13	32.54	24.18979	42.91652	0.747555	9.978932	13.34875	2.206661	0.5
-13	32.54	24.17243	41.23937	0.679842	8.720391	12.82709	2.120426	0.6
-13	32.54	24.17243	39.20284	0.620951	7.57166	12.19365	2.015713	0.7
-13	32.54	24.17243	36.92671	0.574243	6.595569	11.48568	1.89868	0.7
-14	32.54	24.17243	34.29119	0.542939	5.790956	10.66593	1.763168	0.7
-14	32.54	24.17243	31.89527	0.519656	5.155358	9.92071	1.639976	0.8
-14	32.54	24.15506	29.49935	0.508236	4.66331	9.175479	1.516784	0.8
-15	32.54	24.15506	27.34302	0.505296	4.297428	8.504774	1.40591	0.8
-15	32.54	24.15506	25.66588	0.500726	3.99735	7.983115	1.319676	0.8
-15	32.54	24.15506	23.81652	0.500526	3.707843	7.407892	1.224587	0.8
-15	32.54	24.15506	22.43138	0.501897	3.50176	6.977057	1.153366	0.8
-16	32.54	24.15506	21.24091	0.502449	3.319566	6.606772	1.092155	0.8
-16	32.54	24.1377	20.4248	0.497949	3.163433	6.352929	1.050193	0.8
-16	32.54	24.1377	19.59371	0.495421	3.019307	6.094428	1.00746	0.8
-16	32.54	24.1377	18.90488	0.48675	2.862174	5.880175	0.972042	0.8
-17	32.54	24.1377	18.05882	0.474076	2.662893	5.617017	0.92854	0.9
-17	32.54	24.12033	17.19779	0.463851	2.481231	5.3492	0.884268	0.9
-17	32.54	24.12033	16.28434	0.455108	2.305161	5.065083	0.8373	0.9
-18	32.54	24.12033	15.34095	0.443126	2.11444	4.771649	0.788794	0.9
-18	32.54	24.12033	14.42002	0.429876	1.928082	4.485202	0.741442	0.9
-18	32.54	24.12033	13.56647	0.416567	1.757792	4.219714	0.697554	1.0
-18	32.54	24.12033	12.70543	0.400435	1.582477	3.951899	0.653282	1.0
-19	32.54	24.12033	11.73958	0.39525	1.443245	3.651478	0.60362	1.0
-19	32.54	24.10297	10.90849	0.393081	1.333716	3.392978	0.560888	1.0
-19	32.54	24.10297	10.32449	0.388802	1.248569	3.211329	0.53086	1.0
-20	32.54	24.10297	9.680584	0.392158	1.180807	3.011049	0.497752	1.0
-20	32.54	24.10297	9.246323	0.389998	1.121625	2.875977	0.475423	1.0
-20	32.54	24.10297	8.65483	0.393456	1.059183	2.691998	0.44501	1.0
-21	32.54	24.10297	8.153183	0.394469	1.000361	2.535967	0.419216	1.0
-21	32.54	24.10297	7.576664	0.398589	0.939332	2.356646	0.389573	1.0
-21	32.54	24.0856	6.895324	0.406536	0.871906	2.144721	0.35454	1.0
-22	32.54	24.0856	6.386191	0.411046	0.816485	1.986361	0.328362	1.0
-22	32.54	24.0856	6.064239	0.404343	0.76268	1.886221	0.311808	1.0
-22	32.54	24.0856	5.809672	0.39214	0.708613	1.80704	0.298719	1.0
-22	32.54	24.0856	5.592542	0.37771	0.657028	1.739505	0.287555	1.1
-23	32.54	24.06824	5.40536	0.362674	0.609758	1.681283	0.27793	1.1
-23	32.54	24.06824	5.10587	0.354793	0.563458	1.588129	0.262531	1.1
-23	32.54	24.06824	5.008536	0.336513	0.524239	1.557855	0.257527	1.2
-23	32.54	24.06824	4.791405	0.329062	0.490407	1.490319	0.246362	1.2
-24	32.54	24.06824	4.596736	0.323975	0.46321	1.429769	0.236353	1.3
-24	32.54	24.06824	4.409555	0.320797	0.439989	1.371548	0.226728	1.3
-24	32.54	24.06824	4.102578	0.329139	0.420003	1.276066	0.210944	1.2
-25	32.54	24.05088	3.952832	0.325245	0.399885	1.229489	0.203245	1.2
-25	32.54	24.05088	3.818062	0.319325	0.379221	1.18757	0.196315	1.3
-25	32.54	24.05088	3.593444	0.323363	0.361425	1.117705	0.184766	1.3
-25	32.54	24.05088	3.278979	0.335733	0.342412	1.019894	0.168597	1.2
-26	32.54	24.03351	3.189132	0.327079	0.324445	0.991948	0.163977	1.2
-26	32.54	24.03351	3.024413	0.327167	0.30777	0.940713	0.155508	1.2
-26	32.54	24.03351	2.852206	0.328169	0.291135	0.88715	0.146653	1.2
-26	32.54	24.03351	2.807282	0.312843	0.273167	0.873177	0.144343	1.3
-27	32.54	24.03351	2.717435	0.302784	0.255923	0.845231	0.139724	1.3
-27	32.54	24.03351	2.612614	0.294304	0.239159	0.812627	0.134334	1.4
-27	32.54	24.03351	2.56769	0.279311	0.223073	0.798654	0.132024	1.5
-28	32.54	24.03351	2.537741	0.26438	0.208686	0.789339	0.130484	1.5
-28	32.54	24.01615	2.320611	0.270861	0.195508	0.721803	0.11932	1.5
-28	32.54	24.03351	2.320611	0.257039	0.185531	0.721803	0.11932	1.6
-28	32.54	24.03351	2.223276	0.255652	0.176791	0.691528	0.114315	1.6
-29	32.54	24.03351	2.02112	0.270186	0.169852	0.628649	0.103921	1.5
-29	32.54	24.03351	1.961222	0.270615	0.16508	0.610019	0.100841	1.5
-29	32.54	24.03351	1.908811	0.270213	0.16043	0.593717	0.098146	1.5
-29	32.54	24.03351	1.811477	0.277876	0.156567	0.563442	0.093142	1.5
-30	32.54	24.03351	1.676707	0.293937	0.153295	0.521523	0.086212	1.4
-30	32.54	24.05088	1.646757	0.289532	0.1483	0.512207	0.084672	1.4
-30	32.54	24.05088	1.579372	0.288064	0.141511	0.491248	0.081207	1.4
-31	32.54	24.05088	1.519474	0.287992	0.13611	0.472617	0.078128	1.4
-31	32.54	24.05088	1.497012	0.277323	0.12913	0.465631	0.076973	1.5
-31	32.54	24.05088	1.392191	0.282106	0.12216	0.433027	0.071583	1.4
-31	32.54	24.06824	1.354754	0.275287	0.116001	0.421383	0.069658	1.5
-32	32.54	24.05088	1.167573	0.307421	0.111644	0.363162	0.060034	1.3
-32	32.54	24.06824	1.137624	0.299403	0.105943	0.353847	0.058494	1.4

-32	32.54	24.06824	1.077726	0.300921	0.100874	0.335216	0.055414	1.3
-32	32.54	24.06824	0.927981	0.331079	0.095562	0.288639	0.047714	1.2
-33	32.54	24.06824	0.927981	0.317673	0.091693	0.288639	0.047714	1.3
-33	32.54	24.0856	0.898032	0.309455	0.086438	0.279324	0.046175	1.3
-33	32.54	24.0856	0.740799	0.350947	0.080865	0.230418	0.03809	1.2
-34	32.54	24.0856	0.748287	0.323322	0.075252	0.232747	0.038475	1.3
-34	32.54	24.10297	0.725825	0.32261	0.072833	0.225761	0.03732	1.3
-34	32.54	24.10297	0.613516	0.354435	0.067636	0.190828	0.031545	1.1
-34	32.54	24.10297	0.523669	0.396728	0.06462	0.162882	0.026926	1.0
-35	32.54	24.12033	0.57608	0.33814	0.060589	0.179184	0.029621	1.2
-35	32.54	24.12033	0.523669	0.346923	0.056507	0.162882	0.026926	1.2
-35	32.54	24.12033	0.553618	0.306944	0.052855	0.172197	0.028466	1.3
-35	32.54	24.12033	0.403873	0.392002	0.049244	0.125621	0.020766	1.0
-36	32.54	24.12033	0.486233	0.295807	0.044737	0.151238	0.025001	1.4
-36	32.54	24.12033	0.478746	0.274897	0.040935	0.148909	0.024616	1.5
-36	32.54	24.12033	0.441309	0.275741	0.037849	0.137265	0.022691	1.5
-37	32.54	24.1377	0.314026	0.368122	0.035956	0.097675	0.016146	1.1
-37	32.54	24.1377	0.388898	0.290852	0.035182	0.120963	0.019996	1.4
-37	32.54	24.1377	0.358949	0.315359	0.035209	0.111648	0.018456	1.3
-37	32.54	24.1377	0.366437	0.290234	0.03308	0.113976	0.018841	1.4
-38	32.54	24.1377	0.284077	0.357135	0.031556	0.088359	0.014607	1.1
-38	32.54	24.1377	0.261615	0.380033	0.030924	0.081373	0.013452	1.1
-38	32.54	24.1377	0.291564	0.332075	0.030115	0.090688	0.014992	1.2
-38	32.54	24.1377	0.306539	0.302494	0.028841	0.095346	0.015761	1.3
-39	32.54	24.1377	0.284077	0.291674	0.025772	0.088359	0.014607	1.4
-39	32.54	24.1377	0.239153	0.307093	0.022844	0.074386	0.012297	1.3
-39	32.54	24.1377	0.171768	0.388452	0.020754	0.053427	0.008832	1.0
-40	32.54	24.15506	0.11187	0.545931	0.018996	0.034796	0.005752	0.7
-40	32.54	24.15506	0.11187	0.478731	0.016658	0.034796	0.005752	0.8
-40	32.54	24.15506	0.126844	0.391438	0.015444	0.039454	0.006522	1.0
-40	32.54	24.15506	0.11187	0.385254	0.013405	0.034796	0.005752	1.1
-41	32.54	24.15506	0.096895	0.400688	0.012076	0.030138	0.004982	1.0
-41	32.54	24.15506	0.066946	0.505959	0.010536	0.020823	0.003442	0.8
-41	32.54	24.15506	0.074434	0.418353	0.009686	0.023152	0.003827	1.0
-42	32.54	24.15506	0.126844	0.212599	0.008388	0.039454	0.006522	1.9
-42	32.54	24.15506	0.119357	0.231748	0.008604	0.037125	0.006137	1.7
-3	57.58	24.53707	131.4458	0.733892	30.00511	40.88491	6.911953	1.7
-3	57.58	24.53707	118.3881	0.732204	26.96225	36.82342	6.225326	1.7
-3	57.58	24.55444	106.648	0.830418	27.54646	33.17181	5.607984	1.5
-3	57.58	24.53707	100.0593	1.09755	34.15842	31.12242	5.261523	1.1
-3	57.58	24.53707	95.86639	1.426484	42.5353	29.81828	5.041043	0.9
-4	57.58	24.53707	93.11108	1.590984	46.07695	28.96129	4.896158	0.8
-4	57.58	24.53707	91.31414	1.574882	44.73036	28.40236	4.801667	0.8
-4	57.58	24.53707	90.47557	1.459245	41.06538	28.14153	4.757572	0.8
-5	57.58	24.53707	88.19944	1.357181	37.23229	27.43355	4.637884	0.9
-5	57.58	24.53707	84.84515	1.282102	33.83497	26.39023	4.461502	1.0
-5	57.58	24.53707	82.20964	1.221285	31.22886	25.57049	4.322916	1.0
-5	57.58	24.53707	80.1731	1.159333	28.91033	24.93704	4.215826	1.1
-6	57.58	24.53707	78.97514	1.096677	26.93924	24.56443	4.152833	1.1
-6	57.58	24.53707	78.13657	1.01078	24.5656	24.30361	4.108737	1.2
-6	57.58	24.53707	77.0584	0.927626	22.23357	23.96825	4.052043	1.3
-6	57.58	24.53707	76.21983	0.831917	19.72261	23.70742	4.007947	1.5
-7	57.58	24.53707	74.30309	0.772306	17.84895	23.11123	3.907157	1.6
-7	57.58	24.53707	72.02697	0.734335	16.45151	22.40327	3.78747	1.7
-7	57.58	24.51971	69.87064	0.704127	15.30249	21.73256	3.674081	1.7
-8	57.58	24.51971	67.71431	0.677219	14.2635	21.06186	3.560693	1.8
-8	57.58	24.51971	65.31839	0.657212	13.35234	20.31663	3.434706	1.9
-8	57.58	24.50235	62.92246	0.644553	12.6148	19.5714	3.308718	1.9
-8	57.58	24.50235	61.00573	0.632944	12.01025	18.97522	3.207928	1.9
-9	57.58	24.50235	59.08899	0.623675	11.46255	18.37904	3.107138	2.0
-9	57.58	24.48498	57.29205	0.613135	10.92614	17.82011	3.012648	2.0
-9	57.58	24.48498	55.7347	0.599251	10.38846	17.33572	2.930756	2.0
-10	57.58	24.48498	54.05755	0.588684	9.89817	16.81407	2.842565	2.1
-10	57.58	24.46762	52.5002	0.589528	9.626796	16.32966	2.760673	2.1
-10	57.58	24.46762	51.66163	0.589643	9.47487	16.06883	2.716578	2.1
-10	57.58	24.46762	51.78143	0.555971	8.954526	16.10609	2.722877	2.2
-11	57.58	24.46762	51.18245	0.512438	8.157905	15.91979	2.691381	2.4
-11	57.58	24.46762	49.6251	0.47651	7.35512	15.43539	2.609489	2.6
-11	57.58	24.45025	46.86979	0.463993	6.764265	14.57838	2.464603	2.6
-12	57.58	24.45025	43.75509	0.480427	6.538415	13.60958	2.30082	2.5
-12	57.58	24.45025	40.281	0.533433	6.683386	12.529	2.118138	2.3

-12	57.58	24.45025	38.00488	0.580906	6.866916	11.82104	1.998451	2.1
-12	57.58	24.45025	36.44753	0.602145	6.826296	11.33664	1.916559	2.0
-13	57.58	24.45025	35.36936	0.596215	6.559129	11.00129	1.859864	2.0
-13	57.58	24.45025	34.89017	0.565403	6.13589	10.85224	1.834666	2.2
-13	57.58	24.45025	33.93181	0.533961	5.6355	10.55415	1.784272	2.3
-13	57.58	24.45025	32.61405	0.506984	5.14299	10.14428	1.714979	2.4
-14	57.58	24.43289	31.1765	0.486449	4.717164	9.697139	1.639387	2.5
-14	57.58	24.43289	29.61915	0.474555	4.371952	9.212739	1.557495	2.6
-14	57.58	24.43289	28.54098	0.457578	4.062096	8.877388	1.5008	2.7
-14	57.58	24.43289	27.82221	0.43347	3.751175	8.65382	1.463005	2.8
-15	57.58	24.43289	27.22322	0.407078	3.446941	8.467512	1.431507	3.0
-15	57.58	24.43289	26.38465	0.383919	3.150699	8.206683	1.387412	3.2
-15	57.58	24.43289	25.30649	0.366367	2.883797	7.871331	1.330718	3.3
-16	57.58	24.43289	23.83899	0.353728	2.62285	7.414879	1.253551	3.5
-16	57.58	24.43289	22.49128	0.349803	2.447112	6.995687	1.182683	3.5
-16	57.58	24.43289	21.15106	0.352112	2.316482	6.578827	1.112208	3.5
-16	57.58	24.43289	19.9531	0.358499	2.224918	6.206212	1.049215	3.4
-17	57.58	24.43289	18.87494	0.364116	2.137674	5.87086	0.992521	3.4
-17	57.58	24.43289	18.11872	0.364283	2.05297	5.635647	0.952756	3.4
-17	57.58	24.43289	17.29512	0.365882	1.968251	5.379474	0.909447	3.3
-18	57.58	24.43289	16.61378	0.364308	1.882579	5.167551	0.87362	3.4
-18	57.58	24.43289	16.1346	0.357829	1.795767	5.018506	0.848423	3.4
-18	57.58	24.43289	15.59552	0.352431	1.709581	4.85083	0.820076	3.5
-18	57.58	24.43289	15.08638	0.346934	1.627977	4.692468	0.793303	3.5
-19	57.58	24.43289	14.5473	0.339925	1.538091	4.524793	0.764956	3.6
-19	57.58	24.43289	13.93335	0.331408	1.436264	4.333828	0.732672	3.7
-19	57.58	24.45025	13.19211	0.328206	1.346718	4.103273	0.693695	3.7
-20	57.58	24.45025	12.46584	0.32302	1.252471	3.877376	0.655504	3.8
-20	57.58	24.45025	11.67968	0.318558	1.157274	3.632847	0.614165	3.8
-20	57.58	24.45025	10.92347	0.314024	1.066938	3.397636	0.5744	3.9
-21	57.58	24.45025	10.21218	0.309451	0.982938	3.176397	0.536998	3.9
-21	57.58	24.45025	9.628173	0.301613	0.903255	2.994748	0.506288	4.0
-21	57.58	24.45025	8.939345	0.295429	0.821437	2.780494	0.470067	4.1
-21	57.58	24.45025	8.295442	0.294488	0.759842	2.580214	0.436208	4.1
-22	57.58	24.45025	7.906104	0.287815	0.707771	2.459114	0.415735	4.2
-22	57.58	24.45025	7.426919	0.287049	0.663102	2.310069	0.390537	4.3
-22	57.58	24.46762	7.015121	0.28553	0.623023	2.181984	0.368883	4.3
-23	57.58	24.46762	6.610808	0.284938	0.585897	2.056226	0.347623	4.3
-23	57.58	24.46762	6.288857	0.281778	0.551181	1.956086	0.330694	4.3
-23	57.58	24.46762	6.011828	0.278001	0.519839	1.869918	0.316126	4.4
-23	57.58	24.46762	5.742287	0.274526	0.490326	1.786081	0.301953	4.4
-24	57.58	24.46762	5.510182	0.269428	0.461768	1.713887	0.289748	4.5
-24	57.58	24.46762	5.420335	0.256453	0.432365	1.685941	0.285023	4.8
-24	57.58	24.46762	5.285564	0.24524	0.40318	1.644022	0.277936	5.0
-24	57.58	24.46762	5.060946	0.238322	0.375156	1.574157	0.266125	5.1
-25	57.58	24.48498	4.918689	0.227968	0.34877	1.529909	0.258645	5.4
-25	57.58	24.48498	4.581762	0.22852	0.325666	1.425111	0.240928	5.3
-25	57.58	24.48498	4.446991	0.222217	0.307369	1.383192	0.233841	5.5
-26	57.58	24.48498	4.229861	0.221632	0.291592	1.315656	0.222423	5.5
-26	57.58	24.48498	3.975294	0.225644	0.279003	1.236476	0.209037	5.4
-26	57.58	24.48498	3.690778	0.233119	0.267615	1.14798	0.194076	5.2
-26	57.58	24.48498	3.585957	0.233323	0.260243	1.115376	0.188564	5.2
-27	57.58	24.48498	3.41375	0.23575	0.250323	1.061813	0.179509	5.2
-27	57.58	24.48498	3.301441	0.234325	0.240624	1.02688	0.173603	5.2
-27	57.58	24.48498	3.054362	0.241709	0.22963	0.950029	0.160611	5.1
-28	57.58	24.48498	3.024413	0.233008	0.219194	0.940713	0.159036	5.2
-28	57.58	24.48498	2.882155	0.232801	0.208698	0.896466	0.151555	5.2
-28	57.58	24.48498	2.627588	0.242868	0.198492	0.817285	0.138169	5.0
-28	57.58	24.48498	2.575177	0.234924	0.18817	0.800983	0.135413	5.2
-29	57.58	24.48498	2.462868	0.232183	0.177864	0.766051	0.129508	5.3
-29	57.58	24.48498	2.320611	0.234158	0.169016	0.721803	0.122027	5.2
-29	57.58	24.48498	2.125942	0.239818	0.158581	0.661253	0.111791	5.1
-29	57.58	24.48498	2.110967	0.227227	0.149196	0.656595	0.111003	5.4
-30	57.58	24.48498	1.991171	0.225004	0.139352	0.619334	0.104704	5.4
-30	57.58	24.48498	1.923786	0.218218	0.130576	0.598374	0.10116	5.6
-30	57.58	24.48498	1.691681	0.235598	0.123967	0.526181	0.088955	5.2
-30	57.58	24.48498	1.63927	0.231226	0.117897	0.509879	0.086199	5.3
-31	57.58	24.48498	1.489525	0.246859	0.11437	0.463302	0.078325	4.9
-31	57.58	24.48498	1.452089	0.250561	0.113168	0.451658	0.076357	4.9
-31	57.58	24.48498	1.429627	0.249286	0.11085	0.444671	0.075176	4.9
-31	57.58	24.48498	1.287369	0.264618	0.105959	0.400423	0.067695	4.6

-32	57.58	24.48498	1.384704	0.236201	0.101731	0.430698	0.072813	5.2
-32	57.58	24.48498	1.369729	0.221024	0.094165	0.42604	0.072026	5.5
-32	57.58	24.46762	1.294856	0.214723	0.08648	0.402752	0.068089	5.7
-33	57.58	24.46762	1.279882	0.201898	0.080374	0.398094	0.067301	6.0
-33	57.58	24.46762	1.160086	0.207229	0.074775	0.360833	0.061002	5.9
-33	57.58	24.46762	1.107675	0.205919	0.070946	0.344531	0.058246	5.9
-33	57.58	24.46762	1.04029	0.212487	0.068755	0.323572	0.054703	5.7
-34	57.58	24.46762	0.87557	0.245286	0.066801	0.272337	0.046041	5.0
-34	57.58	24.46762	0.920494	0.227178	0.065043	0.28631	0.048403	5.4
-34	57.58	24.46762	0.905519	0.224938	0.063354	0.281653	0.047616	5.4
-34	57.58	24.46762	0.79321	0.24441	0.060301	0.24672	0.04171	5.0
-35	57.58	24.46762	0.808185	0.224287	0.056381	0.251378	0.042498	5.4
-35	57.58	24.46762	0.853108	0.205358	0.054492	0.265351	0.04486	5.9
-35	57.58	24.46762	0.808185	0.207146	0.052072	0.251378	0.042498	5.9
-36	57.58	24.46762	0.800698	0.199109	0.049588	0.249049	0.042104	6.1
-36	57.58	24.46762	0.673414	0.223857	0.046889	0.209459	0.035411	5.5
-36	57.58	24.46762	0.703363	0.202577	0.044319	0.218774	0.036986	6.0
-36	57.58	24.46762	0.695876	0.197101	0.042662	0.216445	0.036592	6.2
-37	57.58	24.46762	0.688389	0.193711	0.041477	0.214116	0.036198	6.3
-37	57.58	24.46762	0.650952	0.198314	0.040153	0.202472	0.03423	6.2
-37	57.58	24.46762	0.665927	0.190048	0.039365	0.20713	0.035017	6.4
-37	57.58	24.46762	0.628491	0.196323	0.038378	0.195486	0.033049	6.2
-38	57.58	24.46762	0.538644	0.221607	0.037128	0.16754	0.028324	5.5
-38	57.58	24.46762	0.508695	0.227784	0.036041	0.158224	0.026749	5.4
-38	57.58	24.46762	0.523669	0.216659	0.03529	0.162882	0.027537	5.6
-39	57.58	24.46762	0.538644	0.205875	0.034492	0.16754	0.028324	5.9
-39	57.58	24.46762	0.523669	0.198879	0.032394	0.162882	0.027537	6.1
-39	57.58	24.46762	0.523669	0.190246	0.030988	0.162882	0.027537	6.4
-39	57.58	24.48498	0.463771	0.200099	0.028864	0.144251	0.024387	6.1
-40	57.58	24.48498	0.456284	0.195063	0.027684	0.141923	0.023993	6.3
-40	57.58	24.48498	0.418847	0.198753	0.025893	0.130278	0.022025	6.1
-40	57.58	24.48498	0.403873	0.197891	0.024859	0.125621	0.021237	6.2
-40	57.58	24.48498	0.381411	0.207041	0.024562	0.118634	0.020056	5.9
-41	57.58	24.50235	0.351462	0.219503	0.023996	0.109319	0.018481	5.6
-41	57.58	24.50235	0.336488	0.220683	0.023097	0.104661	0.017694	5.5
-41	57.58	24.50235	0.321513	0.218674	0.021868	0.100003	0.016906	5.6
-42	57.58	24.50235	0.381411	0.179391	0.021282	0.118634	0.020056	6.8
-42	57.58	24.50235	0.396386	0.168635	0.020791	0.123292	0.020844	7.2
-42	57.58	24.50235	0.358949	0.179527	0.020044	0.111648	0.018875	6.8
-42	57.58	24.50235	0.351462	0.170003	0.018585	0.109319	0.018481	7.2
-43	57.58	24.51971	0.351462	0.171892	0.018791	0.109319	0.018481	7.1
-43	57.58	24.51971	0.306539	0.195008	0.018593	0.095346	0.016119	6.3
-43	57.58	24.51971	0.239153	0.236633	0.017602	0.074386	0.012576	5.2
-44	57.58	24.51971	0.261615	0.211371	0.0172	0.081373	0.013757	5.8
-44	57.58	24.51971	0.343975	0.158971	0.017008	0.10699	0.018088	7.7
-44	57.58	24.51971	0.306539	0.174786	0.016665	0.095346	0.016119	7.0
-44	57.58	24.51971	0.269102	0.194785	0.016304	0.083702	0.01415	6.3
-45	57.58	24.51971	0.239153	0.208197	0.015487	0.074386	0.012576	5.9
-45	57.58	24.51971	0.291564	0.164879	0.014953	0.090688	0.015332	7.4
-45	57.58	24.51971	0.269102	0.189809	0.015887	0.083702	0.01415	6.4
-45	57.58	24.51971	0.216692	0.229428	0.015463	0.0674	0.011395	5.3
-46	57.58	24.51971	0.209204	0.228585	0.014874	0.065071	0.011001	5.3
-46	57.58	24.51971	0.261615	0.190751	0.015522	0.081373	0.013757	6.4
-46	57.58	24.51971	0.246641	0.191764	0.014711	0.076715	0.012969	6.4
-47	57.58	24.51971	0.216692	0.196449	0.013241	0.0674	0.011395	6.2
-47	57.58	24.51971	0.239153	0.168601	0.012542	0.074386	0.012576	7.2
-47	57.58	24.51971	0.19423	0.201986	0.012203	0.060413	0.010213	6.0
-47	57.58	24.51971	0.239153	0.158655	0.011802	0.074386	0.012576	7.7
-48	57.58	24.51971	0.209204	0.172308	0.011212	0.065071	0.011001	7.1
-48	57.58	24.51971	0.126844	0.291373	0.011496	0.039454	0.00667	4.2
-48	57.58	24.51971	0.224179	0.147894	0.010312	0.069729	0.011788	8.3
-49	57.58	24.51971	0.209204	0.159019	0.010348	0.065071	0.011001	7.7
-49	57.58	24.53707	0.19423	0.154226	0.009317	0.060413	0.010213	7.9
-49	57.58	24.53707	0.201717	0.154486	0.009693	0.062742	0.010607	7.9
-50	57.58	24.53707	0.179255	0.159514	0.008894	0.055756	0.009426	7.7
-50	57.58	24.53707	0.201717	0.140886	0.008839	0.062742	0.010607	8.7
-50	57.58	24.53707	0.164281	0.166406	0.008503	0.051098	0.008639	7.3
-50	57.58	24.51971	0.186743	0.135425	0.007866	0.058084	0.00982	9.0
-51	57.58	24.51971	0.119357	0.197514	0.007333	0.037125	0.006276	6.2
-51	57.58	24.53707	0.164281	0.147708	0.007548	0.051098	0.008639	8.3
-51	57.58	24.53707	0.171768	0.136817	0.00731	0.053427	0.009032	8.9

-52	57.58	24.53707	0.171768	0.135994	0.007266	0.053427	0.009032	9.0
-52	57.58	24.53707	0.179255	0.129103	0.007198	0.055756	0.009426	9.5
-52	57.58	24.51971	0.089408	0.240359	0.006684	0.02781	0.004701	5.1
-52	57.58	24.51971	0.141819	0.165688	0.007309	0.044111	0.007457	7.4
-53	57.58	24.51971	0.134332	0.177472	0.007415	0.041783	0.007064	6.9
-53	57.58	24.53707	0.134332	0.174029	0.007271	0.041783	0.007064	7.0
-53	57.58	24.53707	0.156793	0.135283	0.006598	0.048769	0.008245	9.0
-54	57.58	24.51971	0.081921	0.241777	0.006161	0.025481	0.004308	5.1
-54	57.58	24.53707	0.141819	0.155748	0.00687	0.044111	0.007457	7.8
-54	57.58	24.53707	0.156793	0.149493	0.007291	0.048769	0.008245	8.2
-54	57.58	24.51971	0.059459	0.366015	0.006769	0.018494	0.003127	3.3
-55	57.58	24.51971	0.119357	0.189522	0.007036	0.037125	0.006276	6.4
-55	57.58	24.51971	0.11187	0.201021	0.006995	0.034796	0.005883	6.1
-5	72.24	24.71072	67.35492	0.175261	3.671724	20.95008	4.352027	1.0
-5	72.24	24.71072	67.71431	0.172735	3.638129	21.06186	4.375248	1.0
-5	72.24	24.71072	67.23512	0.172681	3.611254	20.91281	4.344286	1.0
-5	72.24	24.71072	66.75594	0.17295	3.591097	20.76376	4.313325	1.0
-6	72.24	24.71072	67.23512	0.171718	3.591097	20.91281	4.344286	1.0
-6	72.24	24.71072	68.31329	0.170272	3.617973	21.24817	4.41395	1.0
-6	72.24	24.71072	69.63104	0.169221	3.665005	21.65804	4.499095	1.0
-6	72.24	24.71072	71.90717	0.168071	3.75907	22.36602	4.646163	1.0
-7	72.24	24.71072	74.42289	0.167324	3.87329	23.1485	4.808712	1.0
-7	72.24	24.71072	76.69901	0.167991	4.007668	23.85646	4.95578	1.0
-7	72.24	24.71072	78.73555	0.169682	4.155484	24.4899	5.087368	1.0
-8	72.24	24.69335	79.69392	0.173333	4.29658	24.78799	5.149291	1.0
-8	72.24	24.69335	79.45432	0.178478	4.410802	24.71348	5.13381	1.0
-8	72.24	24.69335	78.37616	0.184516	4.498148	24.37813	5.064146	0.9
-8	72.24	24.69335	77.1782	0.189619	4.551898	24.00551	4.986742	0.9
-9	72.24	24.69335	76.10004	0.193441	4.578772	23.67015	4.917078	0.9
-9	72.24	24.69335	75.38126	0.195858	4.592212	23.44659	4.870636	0.9
-9	72.24	24.69335	75.14167	0.197345	4.612369	23.37207	4.855155	0.9
-9	72.24	24.67599	75.74065	0.198351	4.672836	23.55837	4.893857	0.9
-10	72.24	24.67599	77.298	0.197988	4.760182	24.04277	4.994483	0.9
-10	72.24	24.67599	81.97005	0.192765	4.914717	25.49597	5.296359	0.9
-10	72.24	24.67599	88.19944	0.187722	5.149876	27.43354	5.698861	0.9
-11	72.24	24.67599	97.66334	0.179263	5.445507	30.37719	6.310355	1.0
-11	72.24	24.67599	103.5333	0.177445	5.714263	32.20301	6.689633	1.0
-11	72.24	24.67599	107.6064	0.176751	5.91583	33.46989	6.95281	1.0
-11	72.24	24.67599	107.4866	0.180967	6.050208	33.43264	6.945069	1.0
-12	72.24	24.67599	108.3252	0.182757	6.157711	33.69347	6.999254	0.9
-12	72.24	24.67599	109.2836	0.183921	6.251774	33.99156	7.061179	0.9
-12	72.24	24.65862	110.6013	0.183683	6.318963	34.40144	7.14632	0.9
-13	72.24	24.65862	114.914	0.178106	6.365995	35.74283	7.424978	1.0
-13	72.24	24.65862	119.586	0.172412	6.413027	37.19603	7.726852	1.0
-13	72.24	24.65862	122.1017	0.169567	6.439902	37.97851	7.8894	1.0
-13	72.24	24.65862	122.4611	0.169422	6.453341	38.09032	7.912622	1.0
-14	72.24	24.65862	119.4662	0.146371	5.438958	37.15876	7.719111	1.2
-14	72.24	24.65862	116.1119	0.153753	5.552859	36.11547	7.502379	1.1
-14	72.24	24.65862	113.117	0.161189	5.671248	35.18391	7.308868	1.1
-14	72.24	24.65862	110.0023	0.168975	5.781504	34.21514	7.107617	1.0
-15	72.24	24.65862	107.3668	0.17614	5.882272	33.39538	6.937328	1.0
-15	72.24	24.64126	108.2054	0.177844	5.98555	33.6562	6.991513	1.0
-15	72.24	24.64126	109.7627	0.177271	6.052152	34.14062	7.092136	1.0
-15	72.24	24.64126	111.0805	0.176326	6.092142	34.55048	7.177283	1.0
-16	72.24	24.64126	109.1638	0.179223	6.085372	33.95429	7.053439	1.0
-16	72.24	24.64126	104.6115	0.185479	6.035183	32.53838	6.759299	0.9
-16	72.24	24.64126	98.7415	0.193322	5.937417	30.71256	6.380019	0.9
-17	72.24	24.64126	92.15271	0.201927	5.787871	28.66319	5.954295	0.9
-17	72.24	24.64126	85.92332	0.208717	5.578075	26.72559	5.551793	0.8
-17	72.24	24.64126	82.80862	0.209373	5.392768	25.75679	5.350542	0.8
-17	72.24	24.64126	81.01167	0.207416	5.226444	25.19787	5.234435	0.8
-18	72.24	24.62389	79.21474	0.205958	5.074583	24.63895	5.11833	0.8
-18	72.24	24.62389	77.77718	0.203185	4.915404	24.19181	5.025444	0.8
-18	72.24	24.62389	75.86044	0.201472	4.753862	23.59563	4.901597	0.9
-19	72.24	24.62389	73.70412	0.200374	4.593551	22.92493	4.76227	0.9
-19	72.24	24.62389	71.54778	0.199629	4.442593	22.25424	4.622942	0.9
-19	72.24	24.62389	70.23003	0.196509	4.292619	21.84434	4.537797	0.9
-19	72.24	24.62389	69.15186	0.193925	4.171141	21.509	4.468133	0.9
-20	72.24	24.62389	67.59451	0.193832	4.075229	21.0246	4.367508	0.9
-20	72.24	24.62389	65.67777	0.194939	3.982287	20.42842	4.243661	0.9
-20	72.24	24.62389	63.52145	0.196597	3.884312	19.75771	4.104334	0.9

-20	72.24	24.62389	61.12552	0.198698	3.77775	19.01248	3.949525	0.9
-21	72.24	24.62389	59.44838	0.198306	3.666843	18.49082	3.841159	0.9
-21	72.24	24.62389	58.60981	0.196109	3.575061	18.23	3.786976	0.9
-21	72.24	24.62389	57.41184	0.195775	3.496036	17.85738	3.709571	0.9
-21	72.24	24.62389	55.6149	0.196714	3.402852	17.29846	3.593465	0.9
-21	72.24	24.62389	54.29715	0.196101	3.311864	16.88858	3.508321	0.9
-22	72.24	24.62389	53.09918	0.195254	3.224815	16.51597	3.430916	0.9
-22	72.24	24.62389	51.54184	0.195711	3.137558	16.03157	3.330291	0.9
-22	72.24	24.62389	49.98449	0.195566	3.040505	15.54718	3.229665	0.9
-22	72.24	24.62389	48.54693	0.195131	2.946481	15.10004	3.13678	0.9
-23	72.24	24.62389	46.6302	0.196237	2.846193	14.50385	3.012933	0.9
-23	72.24	24.62389	44.95305	0.195986	2.740309	13.9822	2.904567	0.9
-23	72.24	24.62389	43.5155	0.195726	2.649162	13.53506	2.811682	0.9
-24	72.24	24.62389	42.31754	0.194561	2.560903	13.16245	2.734278	0.9
-24	72.24	24.62389	40.87998	0.194838	2.47743	12.71531	2.641392	0.9
-24	72.24	24.62389	39.68202	0.193944	2.39379	12.3427	2.563988	0.9
-24	72.24	24.62389	38.36426	0.193505	2.309056	11.93282	2.478843	0.9
-25	72.24	24.62389	36.92671	0.193619	2.223848	11.48568	2.385958	0.9
-25	72.24	24.62389	35.60895	0.193115	2.138906	11.07581	2.300814	0.9
-25	72.24	24.62389	34.1714	0.193609	2.057807	10.62867	2.207929	0.9
-25	72.24	24.62389	32.85364	0.192624	1.968387	10.2188	2.122784	0.9
-26	72.24	24.62389	31.29629	0.193135	1.88005	9.734399	2.022158	0.9
-26	72.24	24.62389	30.21813	0.19257	1.80997	9.399047	1.952495	0.9
-26	72.24	24.64126	28.90037	0.19353	1.73967	8.98917	1.86735	0.9
-27	72.24	24.62389	27.942	0.192528	1.673278	8.691081	1.805426	0.9
-27	72.24	24.62389	26.74404	0.193567	1.610179	8.318466	1.728022	0.9
-27	72.24	24.64126	25.66588	0.194314	1.55123	7.983116	1.658358	0.9
-27	72.24	24.64126	24.70751	0.191088	1.468519	7.685025	1.596435	0.9
-28	72.24	24.64126	23.2999	0.191285	1.386282	7.247203	1.505485	0.9
-28	72.24	24.64126	22.28164	0.189654	1.314394	6.930482	1.439691	0.9
-28	72.24	24.64126	21.1885	0.187938	1.2386	6.590469	1.36906	0.9
-29	72.24	24.64126	19.77341	0.190238	1.170022	6.150321	1.277626	0.9
-29	72.24	24.64126	18.20108	0.197404	1.117554	5.661263	1.176033	0.9
-29	72.24	24.64126	16.28434	0.215702	1.092548	5.065082	1.052186	0.8
-30	72.24	24.64126	14.6072	0.239837	1.089679	4.543422	0.94382	0.7
-30	72.24	24.64126	13.79109	0.253855	1.088932	4.289579	0.891089	0.7
-30	72.24	24.64126	13.13221	0.264422	1.080068	4.084643	0.848516	0.7
-31	72.24	24.64126	12.72041	0.267245	1.057368	3.956555	0.821908	0.6
-31	72.24	24.64126	12.34605	0.266238	1.022384	3.840115	0.79772	0.6
-31	72.24	24.62389	12.24871	0.254264	0.968704	3.80984	0.79143	0.7
-32	72.24	24.60653	12.47333	0.231368	0.89764	3.879705	0.805944	0.7
-32	72.24	24.60653	12.39097	0.212437	0.818751	3.854087	0.800622	0.8
-32	72.24	24.58917	11.98666	0.201013	0.749442	3.728331	0.774498	0.9
-32	72.24	24.58917	11.59732	0.191004	0.688997	3.60723	0.749342	0.9
-33	72.24	24.5718	11.12562	0.184604	0.638823	3.460514	0.718864	0.9
-33	72.24	24.55444	10.609	0.180415	0.595337	3.299824	0.685483	1.0
-33	72.24	24.53707	9.950125	0.180055	0.557249	3.094887	0.642911	1.0
-34	72.24	24.53707	9.298734	0.18138	0.524601	2.892279	0.600822	1.0
-34	72.24	24.51971	8.797088	0.180998	0.495256	2.736247	0.568409	1.0
-34	72.24	24.50235	8.295442	0.181815	0.469121	2.580214	0.535996	0.9
-35	72.24	24.50235	7.681486	0.185966	0.444318	2.389251	0.496327	0.9
-35	72.24	24.50235	7.2622	0.186129	0.420436	2.258835	0.469235	0.9
-35	72.24	24.48498	6.805477	0.187813	0.397558	2.116776	0.439725	0.9
-36	72.24	24.48498	6.468551	0.18658	0.375395	2.011978	0.417955	0.9
-36	72.24	24.48498	6.03429	0.188116	0.353077	1.876906	0.389896	0.9
-36	72.24	24.48498	5.629978	0.189934	0.332602	1.751149	0.363772	0.9
-37	72.24	24.46762	5.240641	0.192414	0.313644	1.630049	0.338615	0.9
-37	72.24	24.46762	4.821354	0.198793	0.298117	1.499634	0.311524	0.9
-37	72.24	24.46762	4.409555	0.209609	0.287489	1.371548	0.284916	0.8
-38	72.24	24.46762	4.005243	0.224941	0.28023	1.245791	0.258792	0.8
-38	72.24	24.46762	3.623393	0.247603	0.279054	1.127021	0.23412	0.7
-38	72.24	24.46762	3.33139	0.269122	0.278863	1.036196	0.215252	0.6
-38	72.24	24.46762	3.219081	0.277141	0.277491	1.001263	0.207996	0.6
-39	72.24	24.46762	3.039387	0.28915	0.273354	0.945371	0.196385	0.6
-39	72.24	24.46762	2.94954	0.289817	0.265885	0.917425	0.19058	0.6
-39	72.24	24.46762	2.919591	0.27948	0.253798	0.90811	0.188645	0.6
-39	72.24	24.46762	2.807282	0.275459	0.240525	0.873177	0.181388	0.6
-40	72.24	24.46762	2.65005	0.275534	0.227115	0.824272	0.171229	0.6
-40	72.24	24.46762	2.56769	0.270327	0.215898	0.798654	0.165907	0.6
-40	72.24	24.46762	2.545228	0.257317	0.203709	0.791668	0.164456	0.7
-41	72.24	24.46762	2.477843	0.248635	0.191625	0.770708	0.160102	0.7

-41	72.24	24.46762	2.455381	0.234399	0.179016	0.763722	0.15865	0.7
-41	72.24	24.46762	2.343072	0.229307	0.167117	0.728789	0.151394	0.8
-41	72.24	24.46762	2.215789	0.227999	0.157137	0.689199	0.14317	0.8
-42	72.24	24.46762	2.02112	0.239112	0.150318	0.628649	0.130591	0.7
-42	72.24	24.46762	1.893837	0.24363	0.143512	0.589059	0.122367	0.7
-42	72.24	24.46762	1.781528	0.251678	0.139461	0.554126	0.11511	0.7
-43	72.24	24.46762	1.691681	0.255245	0.134305	0.52618	0.109305	0.7
-43	72.24	24.46762	1.526961	0.271472	0.128934	0.474946	0.098662	0.6
-43	72.24	24.46762	1.526961	0.261749	0.124317	0.474946	0.098662	0.7
-43	72.24	24.46762	1.489525	0.256407	0.118794	0.463302	0.096243	0.7
-44	72.24	24.46762	1.399678	0.25647	0.111656	0.435356	0.090438	0.7
-44	72.24	24.46762	1.294856	0.261311	0.105244	0.402752	0.083665	0.7
-44	72.24	24.46762	1.332293	0.23893	0.099012	0.414396	0.086084	0.7
-45	72.24	24.46762	1.317318	0.224593	0.092025	0.409739	0.085116	0.8
-45	72.24	24.45025	1.317318	0.208643	0.085489	0.409739	0.085116	0.8
-45	72.24	24.41552	1.272395	0.196924	0.077936	0.395766	0.082214	0.9
-45	72.24	24.39816	1.33978	0.170931	0.071231	0.416725	0.086568	1.0
-46	72.24	24.36343	1.279882	0.164041	0.065304	0.398094	0.082697	1.1
-46	72.24	24.34607	1.17506	0.164684	0.06019	0.365491	0.075925	1.0
-46	72.24	24.3287	1.070239	0.168603	0.056126	0.332887	0.069152	1.0
-47	72.24	24.29397	1.062752	0.158726	0.052468	0.330558	0.068668	1.1
-47	72.24	24.25925	1.002853	0.15783	0.049232	0.311928	0.064798	1.1
-47	72.24	24.24188	0.913006	0.160951	0.045707	0.283982	0.058992	1.1
-48	72.24	24.20715	0.860596	0.163569	0.043784	0.26768	0.055606	1.1
-48	72.24	24.18979	0.748287	0.177066	0.041212	0.232747	0.048349	1.0
-48	72.24	24.17243	0.673414	0.195176	0.040881	0.209459	0.043512	0.9
-48	72.24	24.17243	0.621003	0.209449	0.040457	0.193157	0.040125	0.8
-49	72.24	24.15506	0.553618	0.237392	0.040878	0.172197	0.035771	0.7
-49	72.24	24.1377	0.583567	0.22686	0.041178	0.181513	0.037706	0.8
-49	72.24	24.12033	0.508695	0.253493	0.040109	0.158224	0.032868	0.7
-49	72.24	24.12033	0.538644	0.23023	0.038573	0.16754	0.034804	0.8
-50	72.24	24.0856	0.456284	0.24904	0.035344	0.141923	0.029482	0.7
-50	72.24	24.0856	0.478746	0.225483	0.033576	0.148909	0.030933	0.8
-50	72.24	24.06824	0.41136	0.245697	0.031437	0.127949	0.026579	0.7
-51	72.24	24.05088	0.441309	0.218707	0.030021	0.137265	0.028514	0.8
-51	72.24	24.05088	0.381411	0.238627	0.028309	0.118634	0.024644	0.7
-51	72.24	24.03351	0.396386	0.206724	0.025487	0.123292	0.025612	0.8
-51	72.24	24.01615	0.329	0.243841	0.024953	0.102332	0.021258	0.7
-52	72.24	23.99878	0.329	0.226439	0.023172	0.102332	0.021258	0.8
-52	72.24	23.99878	0.254128	0.285187	0.022542	0.079044	0.01642	0.6
-52	72.24	23.98142	0.306539	0.222036	0.02117	0.095346	0.019806	0.8
-53	72.24	23.98142	0.306539	0.209024	0.01993	0.095346	0.019806	0.8
-53	72.24	23.96405	0.254128	0.23251	0.018379	0.079044	0.01642	0.7
-53	72.24	23.96405	0.27659	0.197622	0.017001	0.08603	0.017871	0.9
-53	72.24	23.96405	0.171768	0.286054	0.015283	0.053427	0.011099	0.6
-54	72.24	23.94669	0.231666	0.209028	0.015062	0.072057	0.014969	0.8
-54	72.24	23.94669	0.246641	0.184043	0.014119	0.076715	0.015936	0.9
-54	72.24	23.92933	0.126844	0.340055	0.013416	0.039454	0.008196	0.5
-55	72.24	23.92933	0.201717	0.198283	0.012441	0.062742	0.013034	0.9
-55	72.24	23.91196	0.19423	0.188952	0.011415	0.060413	0.01255	0.9
-55	72.24	23.8946	0.19423	0.178177	0.010764	0.060413	0.01255	1.0
-56	72.24	23.87723	0.141819	0.236702	0.010441	0.044111	0.009163	0.7
-56	72.24	23.85987	0.209204	0.152901	0.009949	0.065071	0.013517	1.1
-56	72.24	23.84251	0.209204	0.127839	0.008319	0.065071	0.013517	1.4
-56	72.24	23.80778	0.171768	0.142888	0.007634	0.053427	0.011099	1.2
-57	72.24	23.79041	0.074434	0.300807	0.006964	0.023152	0.004809	0.6
-57	72.24	23.75568	0.11187	0.179046	0.00623	0.034796	0.007228	1.0
-57	72.24	23.72096	0.156793	0.115348	0.005625	0.048769	0.010131	1.5
-57	72.24	23.68623	0.119357	0.147942	0.005492	0.037125	0.007712	1.2
-57	72.24	23.6515	0.156793	0.104005	0.005072	0.048769	0.010131	1.7
-58	72.24	23.61677	0.134332	0.11909	0.004976	0.041783	0.00868	1.5
-58	72.24	23.58204	0.081921	0.196626	0.00501	0.025481	0.005293	0.9
-58	72.24	23.56468	0.11187	0.121939	0.004243	0.034796	0.007228	1.4
-58	72.24	23.54731	0.126844	0.099272	0.003917	0.039454	0.008196	1.7
-59	72.24	23.51259	0.104383	0.098322	0.003192	0.032467	0.006745	1.8
-59	72.24	23.49522	0.134332	0.080298	0.003355	0.041783	0.00868	2.2
-59	72.24	23.49522	0.126844	0.088909	0.003508	0.039454	0.008196	1.9
-59	72.24	23.47786	0.104383	0.111422	0.003618	0.032467	0.006745	1.5
-59	72.24	23.46049	0.119357	0.084854	0.00315	0.037125	0.007712	2.0
-59	72.24	23.46049	0.089408	0.091157	0.002535	0.02781	0.005777	1.9
-59	72.24	23.46049	0.036997	0.182304	0.002098	0.011508	0.002391	0.9

-59	72.24	23.44313	0.11187	0.076913	0.002676	0.034796	0.007228	2.2
-60	72.24	23.44313	0.134332	0.057106	0.002386	0.041783	0.00868	3.0
-60	72.24	23.44313	0.119357	0.070633	0.002622	0.037125	0.007712	2.4
-60	72.24	23.42576	0.141819	0.067031	0.002957	0.044111	0.009163	2.6
-60	72.24	23.42576	0.141819	0.057826	0.002551	0.044111	0.009163	3.0
-60	72.24	23.42576	0.089408	0.062823	0.001747	0.02781	0.005777	2.7
-60	72.24	23.42576	0.059459	0.092824	0.001717	0.018494	0.003842	1.9
-60	72.24	23.4084	0.119357	0.053214	0.001976	0.037125	0.007712	3.2
-60	72.24	23.4084	0.11187	0.073468	0.002556	0.034796	0.007228	2.4
-60	72.24	23.4084	0.081921	0.155106	0.003952	0.025481	0.005293	1.1
-60	72.24	23.4084	0.11187	0.097495	0.003392	0.034796	0.007228	1.8
-60	72.24	23.4084	0.081921	0.135414	0.00345	0.025481	0.005293	1.3
-60	72.24	23.4084	0.051972	0.166313	0.002689	0.016165	0.003358	1.0
-61	72.24	23.4084	0.066946	0.114602	0.002386	0.020823	0.004326	1.5
-61	72.24	23.39104	0.11187	0.06576	0.002288	0.034796	0.007228	2.6
-61	72.24	23.39104	0.11187	0.075826	0.002638	0.034796	0.007228	2.3
-61	72.24	23.39104	0.089408	0.055881	0.001554	0.02781	0.005777	3.1
-61	72.24	23.37367	0.089408	0.070715	0.001967	0.02781	0.005777	2.4
-62	72.24	23.37367	0.044485	0.134696	0.001864	0.013836	0.002874	1.3
-62	72.24	23.37367	0.007048	0.860808	0.001887	0.002192	0.000455	0.2
-62	72.24	23.35631	0.104383	0.054729	0.001777	0.032467	0.006745	3.2
-62	72.24	23.35631	0.11187	0.04968	0.001729	0.034796	0.007228	3.5
-62	72.24	23.35631	0.066946	0.0702	0.001462	0.020823	0.004326	2.5
-62	72.24	23.33894	0.096895	0.075555	0.002277	0.030138	0.006261	2.3
-62	72.24	23.33894	0.059459	0.083096	0.001537	0.018494	0.003842	2.1
-62	72.24	23.33894	0.014536	0.29205	0.00132	0.004521	0.000939	0.6
-62	72.24	23.33894	0.059459	0.082157	0.001519	0.018494	0.003842	2.1
-62	72.24	23.33894	0.126844	0.038898	0.001535	0.039454	0.008196	4.4
-62	72.24	23.33894	0.096895	0.036988	0.001115	0.030138	0.006261	4.7
-62	72.24	23.33894	0.096895	0.050921	0.001535	0.030138	0.006261	3.4
-62	72.24	23.33894	0.089408	0.055185	0.001535	0.02781	0.005777	3.1
-61	72.24	23.33894	0.02951	0.121448	0.001115	0.009179	0.001907	1.4
-61	72.24	23.33894	0.059459	0.060276	0.001115	0.018494	0.003842	2.9
-62	72.24	23.33894	0.104383	0.089923	0.00292	0.032467	0.006745	1.9
-62	72.24	23.33894	0.089408	0.13243	0.003683	0.02781	0.005777	1.3
-62	72.24	23.33894	0.089408	0.058986	0.00164	0.02781	0.005777	2.9
-62	72.24	23.33894	0.051972	0.080849	0.001307	0.016165	0.003358	2.1
-62	72.24	23.33894	0.014536	0.254983	0.001153	0.004521	0.000939	0.7
-62	72.24	23.33894	0.066946	0.049223	0.001025	0.020823	0.004326	3.5
-62	72.24	23.33894	0.104383	0.059591	0.001935	0.032467	0.006745	2.9
-62	72.24	23.32158	0.089408	0.048212	0.001341	0.02781	0.005777	3.6
-62	72.24	23.32158	0.081921	0.055535	0.001415	0.025481	0.005293	3.1
-62	72.24	23.32158	0.059459	0.075031	0.001388	0.018494	0.003842	2.3
-62	72.24	23.32158	0.007048	0.546412	0.001198	0.002192	0.000455	0.3
-62	72.24	23.32158	0.051972	0.063631	0.001029	0.016165	0.003358	2.7
-62	72.24	23.32158	0.104383	0.034335	0.001115	0.032467	0.006745	5.0
-63	72.24	23.32158	0.081921	0.060229	0.001535	0.025481	0.005293	2.9
-63	72.24	23.32158	0.074434	0.037654	0.000872	0.023152	0.004809	4.6
-63	72.24	23.30422	0.066946	0.070717	0.001473	0.020823	0.004326	2.4
-63	72.24	23.32158	0.014536	0.333178	0.001506	0.004521	0.000939	0.5
-63	72.24	23.30422	0.044485	0.066858	0.000925	0.013836	0.002874	2.6
-63	72.24	23.30422	0.096895	0.028099	0.000847	0.030138	0.006261	6.1
-62	72.24	23.30422	0.089408	0.046185	0.001284	0.02781	0.005777	3.7
-62	72.24	23.30422	0.089408	0.041727	0.00116	0.02781	0.005777	4.1
-62	72.24	23.30422	0.044485	0.047835	0.000662	0.013836	0.002874	3.6
-62	72.24	23.30422	0.014536	0.225694	0.00102	0.004521	0.000939	0.8
-62	72.24	23.30422	0.074434	0.048149	0.001115	0.023152	0.004809	3.6
-62	72.24	23.30422	0.104383	0.034335	0.001115	0.032467	0.006745	5.0
-62	72.24	23.30422	0.081921	0.070633	0.0018	0.025481	0.005293	2.4
-62	72.24	23.30422	0.104383	0.036409	0.001182	0.032467	0.006745	4.7
-62	72.24	23.30422	0.074434	0.02719	0.00063	0.023152	0.004809	6.4
-62	72.24	23.30422	0.036997	0.09687	0.001115	0.011508	0.002391	1.8
-62	72.24	23.30422	0.014536	0.339445	0.001535	0.004521	0.000939	0.5
-62	72.24	23.30422	0.074434	0.048149	0.001115	0.023152	0.004809	3.6
-62	72.24	23.30422	0.104383	0.040236	0.001306	0.032467	0.006745	4.3
-63	72.24	23.30422	0.081921	0.049016	0.001249	0.025481	0.005293	3.5
-63	72.24	23.30422	0.089408	0.042222	0.001174	0.02781	0.005777	4.1
-63	72.24	23.30422	0.066946	0.046124	0.00096	0.020823	0.004326	3.7
-63	72.24	23.30422	0.022023	0.162737	0.001115	0.00685	0.001423	1.1
-63	72.24	23.30422	0.036997	0.060379	0.000695	0.011508	0.002391	2.9
-63	72.24	23.28685	0.089408	0.024985	0.000695	0.02781	0.005777	6.9

-63	72.24	23.28685	0.096895	0.023054	0.000695	0.030138	0.006261	7.5
-63	72.24	23.28685	0.059459	0.052594	0.000973	0.018494	0.003842	3.3
-63	72.24	23.28685	0.066946	0.072622	0.001512	0.020823	0.004326	2.4
-63	72.24	23.28685	0.036997	0.174443	0.002007	0.011508	0.002391	1.0
-63	72.24	23.28685	0.036997	0.070538	0.000812	0.011508	0.002391	2.4
-63	72.24	23.28685	0.081921	0.043749	0.001115	0.025481	0.005293	3.9
-63	72.24	23.28685	0.104383	0.021401	0.000695	0.032467	0.006745	8.1
-63	72.24	23.28685	0.081921	0.027268	0.000695	0.025481	0.005293	6.3
-63	72.24	23.28685	0.059459	0.038094	0.000705	0.018494	0.003842	4.5
-64	72.24	23.28685	0.089408	0.018724	0.000521	0.02781	0.005777	9.2
-64	72.24	23.28685	0.074434	0.088825	0.002056	0.023152	0.004809	1.9
-64	72.24	23.26949	0.022023	0.242772	0.001663	0.00685	0.001423	0.7
-64	72.24	23.26949	0.014536	0.144871	0.000655	0.004521	0.000939	1.2
-64	72.24	23.26949	0.074434	0.030428	0.000704	0.023152	0.004809	5.7
-64	72.24	23.26949	0.11187	0.035191	0.001225	0.034796	0.007228	4.9
-64	72.24	23.26949	0.074434	0.0132	0.000306	0.023152	0.004809	13.1
-4	77.26	24.65862	18.80755	0.117066	0.684825	5.849901	17.54806	0.9
-4	77.26	24.65862	17.80426	0.114146	0.632121	5.537834	16.61196	0.9
-4	77.26	24.65862	16.73358	0.112211	0.584038	5.204811	15.61298	1.0
-5	77.26	24.65862	15.85008	0.110487	0.544702	4.930013	14.78865	1.0
-5	77.26	24.65862	15.08638	0.109437	0.51353	4.692468	14.07609	1.0
-5	77.26	24.65862	14.57725	0.107394	0.486937	4.534109	13.60105	1.0
-5	77.26	24.67599	14.50986	0.103463	0.466942	4.513151	13.53818	1.0
-6	77.26	24.67599	14.42002	0.099958	0.448334	4.485204	13.45435	1.1
-6	77.26	24.67599	14.5473	0.095735	0.43318	4.524791	13.57311	1.1
-6	77.26	24.69335	15.00402	0.090993	0.424652	4.666851	13.99924	1.2
-7	77.26	24.69335	15.2511	0.088427	0.419471	4.743703	14.22978	1.2
-7	77.26	24.71072	15.311	0.087752	0.417903	4.762334	14.28567	1.2
-7	77.26	24.71072	15.07141	0.089221	0.418251	4.687811	14.06212	1.2
-7	77.26	24.72808	14.77941	0.091374	0.420043	4.596987	13.78968	1.2
-7	77.26	24.74544	14.59971	0.093269	0.423542	4.541094	13.62201	1.2
-8	77.26	24.74544	14.34514	0.095636	0.426722	4.461914	13.38449	1.1
-8	77.26	24.76281	14.11304	0.097423	0.427658	4.38972	13.16793	1.1
-8	77.26	24.76281	13.92586	0.098288	0.425736	4.331499	12.99329	1.1
-9	77.26	24.76281	13.68627	0.098862	0.420851	4.256976	12.76974	1.1
-9	77.26	24.78017	13.29693	0.100237	0.414566	4.135876	12.40647	1.1
-9	77.26	24.78017	13.0798	0.099953	0.406643	4.06834	12.20388	1.1
-10	77.26	24.78017	12.73538	0.100697	0.398883	3.961215	11.88253	1.1
-10	77.26	24.78017	12.69046	0.099351	0.392162	3.947241	11.84062	1.1
-10	77.26	24.79754	12.53323	0.099463	0.387742	3.898335	11.69392	1.1
-11	77.26	24.79754	12.46584	0.099135	0.384385	3.877376	11.63104	1.1
-11	77.26	24.8149	12.42841	0.098552	0.380974	3.865732	11.59612	1.1
-11	77.26	24.83226	12.34605	0.09835	0.377674	3.840115	11.51927	1.1
-11	77.26	24.84963	12.35353	0.097368	0.37413	3.842443	11.52625	1.1
-12	77.26	24.84963	12.20379	0.097431	0.369834	3.795867	11.38654	1.1
-12	77.26	24.86699	12.1364	0.097077	0.366456	3.774907	11.32366	1.1
-12	77.26	24.86699	11.97168	0.097709	0.363836	3.723673	11.16997	1.1
-13	77.26	24.86699	11.74707	0.099208	0.362488	3.653808	10.9604	1.1
-13	77.26	24.86699	11.69466	0.099296	0.361189	3.637506	10.9115	1.1
-13	77.26	24.84963	11.52994	0.100794	0.361476	3.586273	10.75781	1.1
-14	77.26	24.86699	11.45506	0.101763	0.362578	3.562983	10.68795	1.1
-14	77.26	24.84963	11.41763	0.102744	0.364878	3.551338	10.65302	1.0
-14	77.26	24.84963	11.32778	0.104565	0.368424	3.523394	10.56919	1.0
-15	77.26	24.84963	11.2005	0.107006	0.372789	3.483803	10.45043	1.0
-15	77.26	24.84963	11.17803	0.108825	0.378364	3.476817	10.42947	1.0
-15	77.26	24.84963	11.11065	0.111296	0.384622	3.455858	10.3666	1.0
-16	77.26	24.84963	10.96839	0.114683	0.391255	3.411607	10.23387	0.9
-16	77.26	24.86699	10.75875	0.119046	0.398377	3.346401	10.03827	0.9
-16	77.26	24.86699	10.72131	0.121537	0.405295	3.334757	10.00333	0.9
-17	77.26	24.86699	10.52664	0.125549	0.411074	3.274207	9.821701	0.9
-17	77.26	24.86699	10.36941	0.128995	0.416046	3.225301	9.675	0.8
-17	77.26	24.84963	10.07741	0.133655	0.418937	3.134477	9.402555	0.8
-18	77.26	24.83226	9.897714	0.135969	0.418591	3.078585	9.234893	0.8
-18	77.26	24.8149	9.538326	0.140306	0.416259	2.966802	8.899572	0.8
-18	77.26	24.8149	9.291246	0.143091	0.413526	2.889948	8.669038	0.8
-19	77.26	24.79754	9.006731	0.146415	0.410175	2.801454	8.403576	0.7
-19	77.26	24.79754	8.976782	0.145545	0.406381	2.792139	8.375633	0.7
-19	77.26	24.78017	8.7896	0.14722	0.402488	2.733917	8.200986	0.7
-20	77.26	24.78017	8.639855	0.148275	0.398465	2.687341	8.061269	0.7
-20	77.26	24.76281	8.579957	0.147925	0.394769	2.668709	8.005382	0.7
-20	77.26	24.76281	8.377801	0.150031	0.390956	2.605831	7.816764	0.7

-21	77.26	24.74544	8.235543	0.151556	0.388223	2.561583	7.684032	0.7
-21	77.26	24.74544	8.123235	0.15332	0.387387	2.526651	7.579245	0.7
-22	77.26	24.74544	7.980977	0.156538	0.38859	2.482404	7.446514	0.7
-22	77.26	24.74544	7.846206	0.160689	0.39216	2.440484	7.320768	0.7
-22	77.26	24.74544	7.711435	0.165853	0.397809	2.398565	7.195022	0.6
-22	77.26	24.72808	7.569177	0.171642	0.4041	2.354317	7.062291	0.6
-23	77.26	24.72808	7.374509	0.178183	0.40871	2.293767	6.880659	0.6
-23	77.26	24.74544	7.239738	0.183356	0.412891	2.251848	6.754914	0.6
-23	77.26	24.74544	7.030095	0.189551	0.414481	2.186641	6.55931	0.6
-24	77.26	24.74544	6.872862	0.193883	0.414471	2.137735	6.412606	0.6
-24	77.26	24.74544	6.640758	0.199612	0.412307	2.065541	6.196046	0.5
-24	77.26	24.74544	6.25142	0.210644	0.409585	1.944441	5.83278	0.5
-25	77.26	24.74544	5.802185	0.225353	0.406696	1.804711	5.413629	0.5
-25	77.26	24.72808	5.397873	0.242971	0.407937	1.678955	5.036393	0.4
-25	77.26	24.72808	4.948637	0.266238	0.409801	1.539224	4.617241	0.4
-25	77.26	24.72808	4.72402	0.278752	0.409586	1.469359	4.407666	0.4
-26	77.26	24.72808	4.596736	0.283961	0.405999	1.429769	4.288906	0.4
-26	77.26	24.72808	4.506889	0.284721	0.399128	1.401823	4.205076	0.4
-26	77.26	24.72808	4.574275	0.272316	0.387446	1.422782	4.267949	0.4
-26	77.26	24.72808	4.514377	0.266254	0.37386	1.404152	4.212062	0.4
-27	77.26	24.72808	4.536839	0.252181	0.355862	1.411138	4.23302	0.4
-27	77.26	24.72808	4.551813	0.238977	0.338343	1.415796	4.246991	0.4
-27	77.26	24.72808	4.581762	0.224586	0.32006	1.425111	4.274935	0.5
-28	77.26	24.72808	4.611711	0.212952	0.305464	1.434427	4.302878	0.5
-28	77.26	24.72808	4.634173	0.204844	0.295265	1.441413	4.323836	0.5
-28	77.26	24.72808	4.574275	0.202289	0.287814	1.422783	4.267949	0.5
-28	77.26	24.71072	4.446991	0.204707	0.283149	1.383192	4.149189	0.5
-29	77.26	24.71072	4.357144	0.205831	0.278952	1.355247	4.065359	0.5
-29	77.26	24.71072	4.252323	0.207721	0.274741	1.322642	3.967557	0.5
-29	77.26	24.71072	4.035192	0.215331	0.270264	1.255106	3.764967	0.5
-29	77.26	24.71072	3.810575	0.224387	0.265953	1.185241	3.555392	0.5
-30	77.26	24.71072	3.503597	0.242961	0.264769	1.089759	3.268971	0.4
-30	77.26	24.69335	3.264005	0.260649	0.26462	1.015236	3.045424	0.4
-30	77.26	24.69335	3.076823	0.279319	0.267313	0.957015	2.870777	0.4
-31	77.26	24.69335	2.919591	0.294986	0.26788	0.90811	2.724074	0.4
-31	77.26	24.69335	2.807282	0.306975	0.268044	0.873177	2.619286	0.3
-31	77.26	24.69335	2.642563	0.32333	0.265758	0.821943	2.465598	0.3
-31	77.26	24.69335	2.575177	0.324306	0.259764	0.800983	2.402725	0.3
-32	77.26	24.69335	2.515279	0.321063	0.251184	0.782352	2.346838	0.3
-32	77.26	24.69335	2.470356	0.313692	0.241035	0.76838	2.304923	0.3
-32	77.26	24.69335	2.395483	0.307008	0.228749	0.745091	2.235064	0.3
-32	77.26	24.69335	2.313123	0.303042	0.21803	0.719474	2.15822	0.4
-33	77.26	24.69335	2.238251	0.300056	0.208895	0.696186	2.088362	0.4
-33	77.26	24.67599	2.058557	0.314948	0.201659	0.640294	1.920701	0.3
-33	77.26	24.67599	2.043582	0.305999	0.194504	0.635636	1.906729	0.4
-34	77.26	24.67599	1.953735	0.30827	0.187332	0.60769	1.822899	0.3
-34	77.26	24.65862	1.916299	0.303592	0.180955	0.596046	1.78797	0.4
-34	77.26	24.65862	1.871375	0.301148	0.17529	0.582073	1.746054	0.4
-34	77.26	24.64126	1.789015	0.305338	0.169907	0.556455	1.66921	0.4
-35	77.26	24.62389	1.669219	0.318602	0.165416	0.519194	1.557436	0.3
-35	77.26	24.60653	1.691681	0.303542	0.159718	0.526181	1.578394	0.4
-35	77.26	24.5718	1.624296	0.305609	0.1544	0.505221	1.515522	0.4
-35	77.26	24.53707	1.571885	0.304003	0.148633	0.488919	1.46662	0.4
-36	77.26	24.50235	1.437114	0.321217	0.143584	0.447	1.340875	0.3
-36	77.26	24.46762	1.437114	0.310512	0.138799	0.447	1.340875	0.3
-36	77.26	24.41552	1.399678	0.307329	0.133798	0.435356	1.305946	0.3
-37	77.26	24.3808	1.324805	0.309542	0.127552	0.412068	1.236087	0.3
-37	77.26	24.36343	1.279882	0.302942	0.1206	0.398094	1.194172	0.4
-37	77.26	24.3287	1.234958	0.296278	0.113807	0.384121	1.152256	0.4
-37	77.26	24.29397	1.0927	0.318483	0.108244	0.339874	1.019525	0.3
-38	77.26	24.25925	1.0927	0.299652	0.101844	0.339874	1.019525	0.4
-38	77.26	24.22452	1.047777	0.294394	0.095943	0.325901	0.97761	0.4
-38	77.26	24.18979	1.032802	0.284716	0.091463	0.321243	0.963638	0.4
-38	77.26	24.15506	0.950443	0.295664	0.087406	0.295626	0.886794	0.4
-39	77.26	24.12033	0.853108	0.317108	0.084145	0.265351	0.795978	0.3
-39	77.26	24.0856	0.823159	0.312997	0.080138	0.256036	0.768035	0.3
-39	77.26	24.06824	0.815672	0.304412	0.077231	0.253707	0.761049	0.4
-39	77.26	24.05088	0.815672	0.289893	0.073548	0.253707	0.761049	0.4
-40	77.26	24.01615	0.770749	0.290858	0.069728	0.239734	0.719134	0.4
-40	77.26	24.01615	0.733312	0.29451	0.067175	0.228089	0.684204	0.4
-40	77.26	23.99878	0.725825	0.282536	0.063786	0.225761	0.677219	0.4

-41	77.26	23.99878	0.695876	0.278335	0.060244	0.216445	0.649275	0.4
-41	77.26	23.98142	0.621003	0.293057	0.056606	0.193157	0.579416	0.4
-41	77.26	23.98142	0.546131	0.314287	0.053388	0.169869	0.509558	0.3
-41	77.26	23.98142	0.531156	0.304841	0.050363	0.165211	0.495586	0.4
-42	77.26	23.98142	0.508695	0.300453	0.047539	0.158224	0.474629	0.4
-42	77.26	23.98142	0.508695	0.284018	0.044939	0.158224	0.474629	0.4
-42	77.26	23.98142	0.501207	0.272884	0.042541	0.155895	0.467643	0.4
-43	77.26	23.99878	0.486233	0.271525	0.041065	0.151238	0.453671	0.4
-43	77.26	23.99878	0.478746	0.263717	0.03927	0.148909	0.446685	0.4
-43	77.26	23.99878	0.471258	0.251305	0.036836	0.14658	0.439699	0.4
-43	77.26	24.01615	0.471258	0.238848	0.03501	0.14658	0.439699	0.4
-44	77.26	24.01615	0.456284	0.235138	0.033371	0.141922	0.425728	0.5
-44	77.26	24.03351	0.471258	0.223424	0.03275	0.14658	0.439699	0.5
-44	77.26	24.03351	0.433822	0.23225	0.031339	0.134936	0.40477	0.5
-45	77.26	24.05088	0.403873	0.240243	0.030179	0.125621	0.376827	0.4
-45	77.26	24.03351	0.403873	0.230873	0.029002	0.125621	0.376827	0.5
-45	77.26	24.03351	0.358949	0.257809	0.028784	0.111648	0.334912	0.4
-45	77.26	24.01615	0.306539	0.290147	0.027664	0.095346	0.286011	0.4
-46	77.26	23.99878	0.321513	0.266615	0.026662	0.100003	0.299982	0.4
-46	77.26	23.98142	0.366437	0.231582	0.026395	0.113976	0.341897	0.5
-46	77.26	23.96405	0.343975	0.235091	0.025152	0.10699	0.32094	0.5
-47	77.26	23.92933	0.343975	0.224361	0.024004	0.10699	0.32094	0.5
-47	77.26	23.91196	0.261615	0.288032	0.023438	0.081373	0.244095	0.4
-47	77.26	23.87723	0.329	0.214987	0.022	0.102332	0.306968	0.5
-47	77.26	23.84251	0.299051	0.225022	0.020931	0.093017	0.279025	0.5
-48	77.26	23.80778	0.284077	0.233586	0.020639	0.088359	0.265053	0.5
-48	77.26	23.77305	0.216692	0.292169	0.019692	0.0674	0.20218	0.4
-48	77.26	23.72096	0.299051	0.211053	0.019632	0.093017	0.279025	0.5
-48	77.26	23.68623	0.27659	0.221233	0.019033	0.08603	0.258067	0.5
-49	77.26	23.63413	0.231666	0.257488	0.018554	0.072057	0.216152	0.4
-49	77.26	23.59941	0.27659	0.206024	0.017724	0.08603	0.258067	0.5
-49	77.26	23.54731	0.261615	0.212046	0.017255	0.081373	0.244095	0.5
-50	77.26	23.51259	0.179255	0.29603	0.016505	0.055756	0.167251	0.4
-50	77.26	23.49522	0.27659	0.191929	0.016512	0.08603	0.258067	0.6
-50	77.26	23.46049	0.239153	0.219325	0.016315	0.074386	0.223138	0.5
-50	77.26	23.42576	0.186743	0.276344	0.016051	0.058084	0.174237	0.4
-51	77.26	23.4084	0.224179	0.235216	0.016401	0.069729	0.209166	0.5
-51	77.26	23.35631	0.19423	0.269929	0.016307	0.060413	0.181223	0.4
-51	77.26	23.32158	0.239153	0.212414	0.015801	0.074386	0.223138	0.5
-52	77.26	23.26949	0.186743	0.297136	0.017259	0.058084	0.174237	0.4
-52	77.26	23.21739	0.231666	0.231963	0.016715	0.072057	0.216152	0.5
-52	77.26	23.18267	0.179255	0.288161	0.016067	0.055756	0.167251	0.4
-52	77.26	23.13057	0.209204	0.25352	0.016497	0.065071	0.195194	0.4
-53	77.26	23.07848	0.164281	0.306236	0.015648	0.051098	0.153279	0.4
-53	77.26	23.02639	0.19423	0.279494	0.016885	0.060413	0.181223	0.4
-53	77.26	22.9743	0.156793	0.335053	0.01634	0.048769	0.146293	0.3
-54	77.26	22.9222	0.171768	0.28907	0.015444	0.053427	0.160265	0.4
-54	77.26	22.87011	0.119357	0.433608	0.016098	0.037125	0.111364	0.2
-54	77.26	22.81802	0.156793	0.316426	0.015432	0.048769	0.146293	0.3
-54	77.26	22.74856	0.059459	0.780114	0.014428	0.018494	0.055477	0.1
-55	77.26	22.71383	0.126844	0.334999	0.013217	0.039454	0.11835	0.3
-55	77.26	22.66174	0.134332	0.317061	0.013248	0.041783	0.125336	0.3
-55	77.26	22.62701	0.081921	0.457491	0.011657	0.025481	0.076435	0.2
-56	77.26	22.59228	0.126844	0.269986	0.010652	0.039454	0.11835	0.4
-56	77.26	22.57492	0.036997	0.825308	0.009497	0.011508	0.03452	0.1
-56	77.26	22.54019	0.11187	0.286911	0.009983	0.034796	0.104378	0.4
-2	84.73	24.88436	479.8129	0.046805	6.985168	149.241	25.6908	1.6
-3	84.73	24.88436	170.2598	0.119876	6.348357	52.95756	9.116282	0.6
-3	84.73	24.88436	146.8995	0.12203	5.575733	45.69165	7.865493	0.6
-3	84.73	24.88436	156.603	0.101894	4.963213	48.70977	8.385051	0.7
-4	84.73	24.90172	136.7169	0.10082	4.287325	42.52442	7.320282	0.8
-4	84.73	24.88436	133.8418	0.094573	3.937107	41.63014	7.16634	0.8
-5	84.73	24.88436	150.0142	0.075616	3.528284	46.66043	8.032265	1.0
-5	84.73	24.88436	141.0295	0.088299	3.87329	43.86582	7.551194	0.9
-5	84.73	24.88436	153.8477	0.075887	3.631411	47.85279	8.237523	1.0
-6	84.73	24.88436	137.795	0.080495	3.450001	42.85977	7.378008	0.9
-6	84.73	24.88436	131.8052	0.081531	3.342498	40.9967	7.057293	0.9
-6	84.73	24.88436	159.2385	0.069113	3.423125	49.52955	8.526165	1.1
-6	84.73	24.88436	185.9531	0.061972	3.584379	57.83885	9.956554	1.2
-7	84.73	24.88436	185.4739	0.065509	3.779226	57.6898	9.930896	1.2
-7	84.73	24.88436	307.4263	0.042052	4.021106	95.62188	16.46064	1.8

-8	84.73	24.88436	211.829	0.065925	4.343613	65.88731	11.34204	1.2
-8	84.73	24.88436	284.665	0.055507	4.914717	88.54221	15.24192	1.4
-8	84.73	24.88436	355.8239	0.047806	5.290976	110.6755	19.05201	1.6
-9	84.73	24.86699	321.5623	0.055923	5.593324	100.0187	17.21753	1.4
-9	84.73	24.86699	455.8537	0.038264	5.425354	141.7888	24.40794	2.0
-9	84.73	24.86699	286.1026	0.059532	5.297694	88.98937	15.31889	1.3
-10	84.73	24.86699	451.541	0.038151	5.358165	140.4474	24.17702	2.0
-10	84.73	24.84963	404.8206	0.044848	5.647074	125.9154	21.67546	1.7
-10	84.73	24.84963	349.8341	0.055232	6.009893	108.8124	18.73129	1.4
-11	84.73	24.84963	444.2335	0.039519	5.460445	138.1744	23.78575	1.9
-11	84.73	24.84963	435.8477	0.045542	6.173984	135.5661	23.33675	1.7
-11	84.73	24.83226	301.1969	0.068717	6.437686	93.68426	16.12709	1.1
-12	84.73	24.83226	334.2607	0.061632	6.407817	103.9684	17.89744	1.2
-12	84.73	24.83226	331.6251	0.063484	6.548291	103.1487	17.75632	1.2
-12	84.73	24.8149	361.4543	0.057653	6.481784	112.4267	19.35348	1.3
-13	84.73	24.8149	356.6625	0.057321	6.35898	110.9363	19.09691	1.3
-13	84.73	24.8149	302.2751	0.063369	5.957906	94.01963	16.18482	1.2
-13	84.73	24.8149	310.7806	0.058836	5.687349	96.66518	16.64024	1.3
-13	84.73	24.8149	300.2386	0.059463	5.553036	93.38622	16.07578	1.3
-14	84.73	24.8149	273.6438	0.061638	5.246238	85.11414	14.65181	1.2
-14	84.73	24.79754	231.7152	0.069257	4.991522	72.07267	12.40681	1.1
-14	84.73	24.79754	311.8588	0.052253	5.068535	97.00059	16.69797	1.5
-14	84.73	24.79754	301.7959	0.057319	5.380573	93.87059	16.15917	1.3
-15	84.73	24.79754	230.637	0.081964	5.879874	71.73737	12.34908	0.9
-15	84.73	24.79754	235.6684	0.087077	6.382921	73.30229	12.61848	0.9
-15	84.73	24.79754	314.6141	0.069791	6.829566	97.85757	16.8455	1.1
-16	84.73	24.79754	316.6506	0.071211	7.013632	98.49102	16.95454	1.1
-16	84.73	24.79754	278.3159	0.079391	6.872649	86.56735	14.90197	1.0
-16	84.73	24.78017	240.4603	0.089601	6.701521	74.79276	12.87505	0.8
-16	84.73	24.78017	268.6124	0.080971	6.765081	83.54919	14.38241	0.9
-17	84.73	24.78017	274.722	0.083105	7.101302	85.44955	14.70954	0.9
-17	84.73	24.78017	262.383	0.091629	7.478011	81.61162	14.04887	0.8
-17	84.73	24.78017	208.5945	0.123555	8.016417	64.8812	11.16885	0.6
-18	84.73	24.78017	175.7704	0.159181	8.702657	54.67163	9.411338	0.5
-18	84.73	24.78017	178.5257	0.1657	9.201099	55.52866	9.558866	0.5
-18	84.73	24.78017	202.1255	0.145067	9.120254	62.86913	10.82248	0.5
-18	84.73	24.78017	227.5223	0.125262	8.864588	70.76854	12.18231	0.6
-19	84.73	24.78017	232.4339	0.119735	8.656377	72.29625	12.44529	0.6
-19	84.73	24.78017	239.3821	0.115884	8.628396	74.45744	12.81732	0.7
-19	84.73	24.78017	222.2513	0.122714	8.483124	69.12905	11.90008	0.6
-19	84.73	24.78017	213.3864	0.124199	8.24329	66.37168	11.42543	0.6
-20	84.73	24.78017	201.1672	0.154357	9.65825	62.57106	10.77117	0.5
-20	84.73	24.78017	201.0474	0.151225	9.456679	62.53375	10.76475	0.5
-20	84.73	24.78017	224.8868	0.115034	8.046467	69.94884	12.0412	0.7
-21	84.73	24.78017	242.8562	0.112142	8.47098	75.53805	13.00334	0.7
-21	84.73	24.78017	240.1009	0.114871	8.578708	74.68097	12.85581	0.7
-21	84.73	24.78017	214.8239	0.127394	8.512322	66.81881	11.50239	0.6
-22	84.73	24.78017	201.5266	0.134548	8.433837	62.68283	10.79041	0.6
-22	84.73	24.78017	196.3753	0.138806	8.478367	61.08056	10.51459	0.5
-22	84.73	24.78017	206.1986	0.134795	8.645188	64.13601	11.04057	0.6
-23	84.73	24.78017	202.1255	0.140057	8.805236	62.86912	10.82248	0.5
-23	84.73	24.76281	204.4017	0.14314	9.100452	63.5771	10.94435	0.5
-23	84.73	24.76281	199.0108	0.150474	9.314387	61.90035	10.65571	0.5
-23	84.73	24.76281	173.3745	0.170811	9.211247	53.92642	9.283054	0.4
-24	84.73	24.76281	159.9573	0.178171	8.864575	49.7531	8.564652	0.4
-24	84.73	24.74544	199.49	0.136429	8.465299	62.04935	10.68137	0.6
-24	84.73	24.74544	207.6362	0.12545	8.101979	64.58317	11.11754	0.6
-24	84.73	24.74544	187.5104	0.134945	7.870431	58.32325	10.03994	0.6
-25	84.73	24.74544	146.1808	0.171947	7.81809	45.46805	7.827011	0.4
-25	84.73	24.74544	133.8418	0.188702	7.855687	41.63014	7.16634	0.4
-25	84.73	24.72808	130.2479	0.196814	7.973372	40.5123	6.97391	0.4
-26	84.73	24.72808	105.5699	0.247721	8.134271	32.83646	5.652567	0.3
-26	84.73	24.72808	111.4399	0.238059	8.25168	34.66227	5.966867	0.3
-26	84.73	24.72808	134.6803	0.196447	8.229367	41.89099	7.211236	0.4
-26	84.73	24.72808	153.0091	0.168334	8.011345	47.59199	8.192622	0.5
-27	84.73	24.71072	153.8477	0.188634	9.026675	47.8528	8.237523	0.4
-27	84.73	24.71072	152.1706	0.180067	8.522755	47.33113	8.147725	0.4
-27	84.73	24.71072	148.9361	0.173535	8.038997	46.32507	7.974539	0.4
-27	84.73	24.71072	145.5818	0.167888	7.602271	45.28178	7.794939	0.5
-28	84.73	24.69335	144.5036	0.134832	6.060221	44.94639	7.737209	0.6
-28	84.73	24.69335	158.5198	0.121695	6.000268	49.30599	8.487683	0.6

-28	84.73	24.69335	163.5512	0.12084	6.147256	50.87095	8.757081	0.6
-29	84.73	24.69335	159.8375	0.126297	6.278982	49.71584	8.558237	0.6
-29	84.73	24.67599	154.8061	0.130302	6.274156	48.15088	8.288839	0.6
-29	84.73	24.67599	149.6548	0.134463	6.259075	46.54865	8.013021	0.6
-29	84.73	24.67599	141.1493	0.142127	6.239821	43.90307	7.557608	0.5
-30	84.73	24.67599	120.784	0.165756	6.227241	37.56865	6.467181	0.5
-30	84.73	24.67599	112.3983	0.177875	6.218567	34.96036	6.018183	0.4
-30	84.73	24.67599	115.2734	0.173195	6.20984	35.85464	6.172125	0.4
-30	84.73	24.67599	118.8672	0.167329	6.186581	36.97247	6.364549	0.5
-31	84.73	24.65862	123.2997	0.158623	6.083381	38.35114	6.60188	0.5
-31	84.73	24.65862	124.2581	0.153059	5.915609	38.64923	6.653196	0.5
-31	84.73	24.65862	121.6226	0.151376	5.726475	37.82948	6.512083	0.5
-32	84.73	24.65862	117.7891	0.151198	5.539458	36.63711	6.306824	0.5
-32	84.73	24.64126	109.6429	0.156535	5.338371	34.10335	5.870649	0.5
-32	84.73	24.64126	104.3719	0.159343	5.172898	32.46383	5.588422	0.5
-32	84.73	24.64126	101.976	0.161577	5.125006	31.7186	5.460138	0.5
-33	84.73	24.64126	103.8927	0.159035	5.139176	32.31479	5.562764	0.5
-33	84.73	24.62389	109.4034	0.15177	5.164538	34.02883	5.857826	0.5
-33	84.73	24.62389	112.3983	0.148205	5.181309	34.96035	6.018183	0.5
-34	84.73	24.62389	114.0754	0.146346	5.192649	35.48202	6.10798	0.5
-34	84.73	24.62389	113.2368	0.147489	5.194735	35.22119	6.063079	0.5
-34	84.73	24.62389	111.6795	0.149301	5.186229	34.73678	5.979696	0.5
-34	84.73	24.62389	105.8095	0.157944	5.198075	32.91097	5.665396	0.5
-35	84.73	24.60653	102.0958	0.165114	5.243331	31.75586	5.466552	0.5
-35	84.73	24.60653	98.38211	0.173096	5.296869	30.60077	5.267709	0.4
-35	84.73	24.60653	96.94456	0.177962	5.3662	30.15365	5.190738	0.4
-36	84.73	24.60653	97.06435	0.181267	5.472611	30.1909	5.197152	0.4
-36	84.73	24.60653	96.46537	0.186145	5.585198	30.00461	5.16508	0.4
-36	84.73	24.58917	95.38721	0.192807	5.72044	29.66924	5.107352	0.4
-36	84.73	24.58917	93.82986	0.200276	5.845029	29.18484	5.023966	0.4
-37	84.73	24.58917	90.95475	0.209763	5.934306	28.29057	4.870023	0.4
-37	84.73	24.5718	87.72026	0.220383	6.01303	27.2845	4.696838	0.3
-37	84.73	24.5718	83.2878	0.236022	6.114338	25.90584	4.459509	0.3
-38	84.73	24.55444	79.21474	0.253352	6.242318	24.63895	4.241423	0.3
-38	84.73	24.53707	79.33453	0.259146	6.394732	24.67622	4.247837	0.3
-38	84.73	24.51971	80.53249	0.259056	6.48905	25.04883	4.31198	0.3
-38	84.73	24.48498	81.49086	0.259062	6.566422	25.34692	4.363295	0.3
-39	84.73	24.46762	80.1731	0.267128	6.661392	24.93704	4.292737	0.3
-39	84.73	24.43289	76.81881	0.280895	6.711617	23.89372	4.113137	0.3
-39	84.73	24.41552	76.81881	0.281035	6.714973	23.89373	4.113137	0.3
-40	84.73	24.3808	78.13657	0.274289	6.666218	24.30359	4.183695	0.3
-40	84.73	24.34607	78.25636	0.272517	6.633291	24.34085	4.190109	0.3
-40	84.73	24.31134	75.62085	0.281353	6.617748	23.52112	4.048995	0.3
-40	84.73	24.27661	70.82901	0.296972	6.542484	22.03067	3.792423	0.3
-41	84.73	24.22452	66.03716	0.311288	6.393907	20.5402	3.535852	0.2
-41	84.73	24.17243	62.68287	0.319429	6.227859	19.49688	3.356252	0.2
-41	84.73	24.12033	56.57327	0.347438	6.113703	17.59655	3.029123	0.2
-41	84.73	24.06824	49.98449	0.390402	6.069639	15.54717	2.676338	0.2
-42	84.73	24.03351	47.94795	0.407822	6.082141	14.91373	2.567294	0.2
-42	84.73	23.98142	49.5053	0.395874	6.095714	15.39813	2.65068	0.2
-42	84.73	23.91196	54.65653	0.355143	6.037563	17.00037	2.926494	0.2
-43	84.73	23.82514	59.56817	0.319244	5.914979	18.52808	3.18948	0.2
-43	84.73	23.72096	62.20369	0.298018	5.766008	19.34784	3.330595	0.3
-43	84.73	23.63413	62.32348	0.29131	5.647074	19.38509	3.337009	0.3
-43	84.73	23.51259	60.88593	0.294532	5.577841	18.93796	3.260037	0.3
-44	84.73	23.4084	58.96919	0.301445	5.529038	18.34178	3.157409	0.3
-44	84.73	23.30422	57.05246	0.311971	5.536102	17.74559	3.05478	0.2
-44	84.73	23.20003	55.37531	0.323981	5.580226	17.22394	2.96498	0.2
-45	84.73	23.09584	53.93776	0.335294	5.625154	16.77681	2.888009	0.2
-45	84.73	22.9743	52.26061	0.347503	5.648715	16.25515	2.798209	0.2
-45	84.73	22.81802	50.58347	0.359167	5.65094	15.73348	2.708409	0.2
-45	84.73	22.69647	50.10428	0.361333	5.631168	15.58443	2.682752	0.2
-46	84.73	22.55755	49.5053	0.363526	5.597618	15.39813	2.65068	0.2
-46	84.73	22.436	47.94795	0.372033	5.548405	14.91374	2.567294	0.2
-46	84.73	22.29709	45.55203	0.388871	5.509715	14.1685	2.439009	0.2
-47	84.73	22.19291	43.2759	0.408103	5.493282	13.46054	2.317137	0.2
-47	84.73	22.08872	40.99978	0.431492	5.502635	12.75257	2.195266	0.2
-47	84.73	22.01926	39.68202	0.447517	5.523561	12.34269	2.124709	0.2
-47	84.73	21.94981	39.32263	0.451801	5.525937	12.23091	2.105466	0.2
-48	84.73	21.89771	39.56223	0.44743	5.505818	12.30544	2.118295	0.2
-48	84.73	21.84562	38.72365	0.455045	5.480836	12.0446	2.073394	0.2

-48	84.73	21.79353	37.88508	0.462434	5.449213	11.78377	2.028495	0.2
-49	84.73	21.72407	37.4059	0.466273	5.424961	11.63473	2.002838	0.2
-49	84.73	21.67198	37.1663	0.467275	5.401788	11.5602	1.990009	0.2
-49	84.73	21.60252	37.4059	0.46388	5.397123	11.63473	2.002838	0.2
-49	84.73	21.55043	37.1663	0.46834	5.414105	11.56021	1.990009	0.2
-50	84.73	21.49834	36.68712	0.479451	5.47109	11.41116	1.964352	0.2
-50	84.73	21.44625	35.72875	0.503001	5.589886	11.11307	1.913037	0.2
-50	84.73	21.41152	35.00997	0.526463	5.732916	10.8895	1.874551	0.1
-51	84.73	21.35942	34.29119	0.548433	5.849552	10.66594	1.836066	0.1
-51	84.73	21.30733	33.45262	0.568317	5.913397	10.4051	1.791166	0.1
-51	84.73	21.25524	32.37446	0.589415	5.935265	10.06975	1.733437	0.1
-51	84.73	21.20315	31.29629	0.606553	5.904425	9.7344	1.675709	0.1
-52	84.73	21.16842	30.45772	0.615792	5.83375	9.473572	1.630809	0.1
-52	84.73	21.09896	29.61915	0.619632	5.708504	9.212739	1.585909	0.1
-52	84.73	21.04687	28.66078	0.623936	5.562168	8.914646	1.534595	0.1
-53	84.73	20.99478	27.58261	0.628781	5.394496	8.579298	1.476866	0.1
-53	84.73	20.94268	26.50445	0.634828	5.233481	8.243941	1.419137	0.1
-53	84.73	20.89059	25.42628	0.643403	5.088411	7.908593	1.361409	0.1
-54	84.73	20.8385	23.8914	0.65826	4.891644	7.431179	1.279226	0.1
-54	84.73	20.80377	22.28164	0.676391	4.687714	6.930481	1.193034	0.1
-54	84.73	20.75168	20.64941	0.692917	4.45046	6.422791	1.105639	0.1
-54	84.73	20.71695	19.09955	0.706598	4.197703	5.940725	1.022654	0.1
-55	84.73	20.66486	17.84918	0.708659	3.934339	5.551809	0.955705	0.1
-55	84.73	20.63013	16.78599	0.69774	3.642982	5.221114	0.898778	0.1
-55	84.73	20.57804	15.75275	0.678802	3.325948	4.899735	0.843455	0.1
-56	84.73	20.56067	14.84679	0.655652	3.027764	4.617946	0.794947	0.1
-56	84.73	20.52594	13.43919	0.665546	2.782065	4.180125	0.719579	0.1
-56	84.73	20.49121	11.89681	0.709112	2.623987	3.700384	0.636995	0.1
-57	84.73	20.47385	10.45177	0.780147	2.536193	3.250919	0.559623	0.1
-57	84.73	20.45649	10.27956	0.772937	2.471355	3.197356	0.550402	0.1
-57	84.73	20.42176	10.80367	0.70084	2.355084	3.360374	0.578465	0.1
-57	84.73	20.38703	10.98337	0.637784	2.178842	3.416267	0.588087	0.1
-58	84.73	20.3523	10.88603	0.586509	1.985913	3.385991	0.582875	0.1
-58	84.73	20.30021	10.63146	0.544279	1.799829	3.306811	0.569244	0.1
-58	84.73	20.26548	10.11484	0.516414	1.624702	3.146121	0.541583	0.1
-59	84.73	20.23075	9.261297	0.517	1.489287	2.880634	0.495881	0.1
-59	84.73	20.19602	8.377801	0.524434	1.366587	2.605831	0.448576	0.1
-59	84.73	20.17866	7.56169	0.556139	1.308032	2.351988	0.404878	0.1
-60	84.73	20.16129	7.09748	0.575559	1.270604	2.2076	0.380023	0.1
-60	84.73	20.14393	6.71563	0.591118	1.234745	2.08883	0.359577	0.1
-60	84.73	20.1092	6.663219	0.571563	1.18458	2.072528	0.356771	0.1
-61	84.73	20.1092	6.491013	0.553879	1.118261	2.018964	0.347551	0.1
-61	84.73	20.09184	6.423627	0.523627	1.04621	1.998005	0.343943	0.1
-61	84.73	20.07447	6.184035	0.506018	0.973316	1.923482	0.331114	0.1
-61	84.73	20.07447	5.907006	0.494855	0.909205	1.837316	0.316281	0.2
-62	84.73	20.05711	5.622491	0.489373	0.855826	1.748819	0.301047	0.2
-62	84.73	20.05711	5.412848	0.47973	0.807679	1.683612	0.289822	0.2
-62	84.73	20.05711	5.240641	0.470965	0.767696	1.630049	0.280602	0.2
-62	84.73	20.03975	5.090896	0.462365	0.732142	1.583472	0.272584	0.2
-63	84.73	20.03975	4.948637	0.453912	0.698673	1.539225	0.264967	0.2
-63	84.73	20.02238	4.753969	0.449435	0.664568	1.478674	0.254543	0.2
-63	84.73	20.02238	4.611711	0.436759	0.626499	1.434427	0.246927	0.2
-64	84.73	20.00502	4.34217	0.434838	0.587288	1.350588	0.232494	0.2
-64	84.73	20.00502	4.169963	0.424561	0.550667	1.297025	0.223274	0.2
-64	84.73	19.98765	3.975294	0.418307	0.517226	1.236475	0.212851	0.2
-64	84.73	19.98765	3.668317	0.426986	0.487188	1.140993	0.196414	0.2
-65	84.73	19.98765	3.526059	0.418698	0.459206	1.096746	0.188797	0.2
-65	84.73	19.97029	3.293954	0.424797	0.435227	1.024552	0.176369	0.2
-65	84.73	19.97029	3.211594	0.412898	0.412457	0.998934	0.17196	0.2
-65	84.73	19.95292	3.054362	0.411807	0.391229	0.950029	0.163541	0.2
-66	84.73	19.93556	2.972002	0.400764	0.370471	0.924412	0.159131	0.2
-66	84.73	19.9182	2.882155	0.388386	0.348175	0.896466	0.15432	0.2
-66	84.73	19.9182	2.724922	0.387363	0.328313	0.84756	0.145901	0.2
-66	84.73	19.90083	2.679999	0.371149	0.309385	0.833587	0.143496	0.2
-67	84.73	19.88347	2.537741	0.371334	0.293109	0.789339	0.135879	0.2
-67	84.73	19.8661	2.477843	0.361415	0.278546	0.770708	0.132672	0.2
-67	84.73	19.8661	2.43292	0.346819	0.26245	0.756735	0.130267	0.2
-68	84.73	19.84874	2.410458	0.329885	0.247331	0.749749	0.129064	0.2
-68	84.73	19.83138	2.305636	0.325187	0.233206	0.717145	0.123452	0.2
-68	84.73	19.81401	2.133429	0.332607	0.220712	0.663582	0.114231	0.2
-68	84.73	19.79665	2.125942	0.317591	0.210008	0.661253	0.11383	0.2

-69	84.73	19.77928	2.043582	0.315056	0.200261	0.635636	0.10942	0.2
-69	84.73	19.77928	1.953735	0.313285	0.19038	0.60769	0.10461	0.2
-69	84.73	19.76192	1.841426	0.31677	0.181432	0.572757	0.098596	0.2
-69	84.73	19.76192	1.72163	0.327622	0.17544	0.535496	0.092182	0.2
-70	84.73	19.74455	1.646757	0.328886	0.168458	0.512208	0.088173	0.2
-70	84.73	19.72719	1.601834	0.326429	0.162638	0.498234	0.085768	0.2
-70	84.73	19.72719	1.564398	0.323452	0.157389	0.48659	0.083763	0.2
-71	84.73	19.70983	1.519474	0.322341	0.152344	0.472617	0.081358	0.2
-71	84.73	19.70983	1.474551	0.320119	0.146821	0.458644	0.078952	0.2
-71	84.73	19.69246	1.42214	0.322311	0.142572	0.442342	0.076146	0.2
-71	84.73	19.69246	1.369729	0.323631	0.13788	0.426041	0.07334	0.2
-72	84.73	19.6751	1.302344	0.329146	0.133331	0.405081	0.069732	0.2
-72	84.73	19.6751	1.234958	0.338101	0.129872	0.384122	0.066124	0.2
-72	84.73	19.65773	1.160086	0.351773	0.126931	0.360833	0.062115	0.2
-72	84.73	19.65773	1.115162	0.356676	0.123717	0.34686	0.05971	0.2
-73	84.73	19.64037	1.077726	0.360864	0.120967	0.335216	0.057705	0.2
-73	84.73	19.623	1.025315	0.371095	0.118347	0.318914	0.054899	0.2
-73	84.73	19.623	0.987879	0.376462	0.115675	0.30727	0.052894	0.2
-74	84.73	19.60564	0.935468	0.388196	0.112953	0.290968	0.050088	0.2
-74	84.73	19.58828	0.898032	0.385914	0.107795	0.279324	0.048084	0.2
-74	84.73	19.58828	0.87557	0.378987	0.103212	0.272337	0.046881	0.2
-74	84.73	19.57091	0.853108	0.371214	0.098502	0.265351	0.045678	0.2
-74	84.73	19.57091	0.830647	0.357174	0.092281	0.258364	0.044476	0.2
-75	84.73	19.57091	0.79321	0.351577	0.086741	0.24672	0.042471	0.2
-75	84.73	19.55355	0.740799	0.357601	0.082398	0.230418	0.039665	0.2
-75	84.73	19.55355	0.673414	0.376092	0.078776	0.209459	0.036057	0.2
-76	84.73	19.55355	0.598542	0.408799	0.076106	0.18617	0.032048	0.2
-76	84.73	19.53618	0.531156	0.445028	0.073523	0.165211	0.02844	0.2
-76	84.73	19.53618	0.531156	0.431046	0.071213	0.165211	0.02844	0.2
-76	84.73	19.53618	0.538644	0.404958	0.067847	0.16754	0.028841	0.2
-77	84.73	19.51882	0.553618	0.373763	0.064361	0.172197	0.029643	0.2
-77	84.73	19.51882	0.561105	0.339706	0.059288	0.174526	0.030043	0.2
-77	84.73	19.50146	0.57608	0.306317	0.054887	0.179184	0.030845	0.2
-77	84.73	19.50146	0.553618	0.294689	0.050745	0.172197	0.029643	0.3
-78	84.73	19.48409	0.508695	0.299731	0.047425	0.158224	0.027237	0.3
-78	84.73	19.46673	0.463771	0.312255	0.045043	0.144251	0.024832	0.2
-78	84.73	19.46673	0.463771	0.305434	0.044059	0.144251	0.024832	0.2
-78	84.73	19.44936	0.463771	0.30179	0.043534	0.144251	0.024832	0.3
-79	84.73	19.432	0.441309	0.309299	0.042456	0.137265	0.023629	0.2
-79	84.73	19.39727	0.441309	0.29502	0.040496	0.137265	0.023629	0.3
-79	84.73	19.37991	0.426335	0.29336	0.038902	0.132607	0.022827	0.3
-79	84.73	19.36254	0.403873	0.293619	0.036885	0.125621	0.021625	0.3
-80	84.73	19.32781	0.373924	0.307479	0.035761	0.116305	0.020021	0.2
-80	84.73	19.31045	0.343975	0.321864	0.034436	0.10699	0.018418	0.2
-80	84.73	19.27572	0.284077	0.365764	0.032319	0.088359	0.01521	0.2
-81	84.73	19.25836	0.27659	0.362083	0.03115	0.08603	0.01481	0.2
-81	84.73	19.22363	0.27659	0.348575	0.029988	0.08603	0.01481	0.2
-81	84.73	19.20626	0.291564	0.319353	0.028961	0.090688	0.015611	0.2
-81	84.73	19.1889	0.306539	0.294521	0.028081	0.095346	0.016413	0.3
-81	84.73	19.15417	0.321513	0.27854	0.027855	0.100003	0.017215	0.3
-82	84.73	19.13681	0.306539	0.288197	0.027478	0.095346	0.016413	0.3
-82	84.73	19.10208	0.284077	0.305656	0.027007	0.088359	0.01521	0.2
-82	84.73	19.04999	0.254128	0.331156	0.026176	0.079044	0.013607	0.2
-83	84.73	18.99789	0.261615	0.31838	0.025907	0.081373	0.014008	0.2
-83	84.73	18.96317	0.261615	0.309027	0.025146	0.081373	0.014008	0.2
-83	84.73	18.91107	0.261615	0.297741	0.024228	0.081373	0.014008	0.3
-83	84.73	18.85898	0.254128	0.287396	0.022717	0.079044	0.013607	0.3
-84	84.73	18.80689	0.224179	0.308689	0.021524	0.069729	0.012003	0.2
-84	84.73	18.7548	0.209204	0.321766	0.020938	0.065071	0.011201	0.2
-84	84.73	18.7027	0.149306	0.400138	0.018582	0.04644	0.007994	0.2
-84	84.73	18.63325	0.119357	0.484814	0.017999	0.037125	0.006391	0.2
-85	84.73	18.59852	0.11187	0.461847	0.01607	0.034796	0.00599	0.2
-85	84.73	18.54642	0.119357	0.409461	0.015201	0.037125	0.006391	0.2
-85	84.73	18.49433	0.134332	0.330094	0.013792	0.041783	0.007193	0.2
-85	84.73	18.4596	0.156793	0.273773	0.013352	0.048769	0.008395	0.3
-86	84.73	18.42488	0.156793	0.269085	0.013123	0.048769	0.008395	0.3
-86	84.73	18.40751	0.156793	0.250213	0.012203	0.048769	0.008395	0.3
-86	84.73	18.37278	0.156793	0.239094	0.01166	0.048769	0.008395	0.3
-86	84.73	18.35542	0.126844	0.27902	0.011008	0.039454	0.006792	0.3
-87	84.73	18.33805	0.134332	0.24474	0.010226	0.041783	0.007193	0.3
-87	84.73	18.32069	0.149306	0.208418	0.009679	0.04644	0.007994	0.4

-87	84.73	18.30333	0.149306	0.207954	0.009657	0.04644	0.007994	0.4
-87	84.73	18.30333	0.149306	0.208305	0.009674	0.04644	0.007994	0.4
-88	84.73	18.28596	0.149306	0.194785	0.009046	0.04644	0.007994	0.4
-88	84.73	18.2686	0.066946	0.442766	0.00922	0.020823	0.003585	0.2
-88	84.73	18.2686	0.066946	0.375688	0.007823	0.020823	0.003585	0.2
-88	84.73	18.25123	0.074434	0.334472	0.007744	0.023152	0.003985	0.2
-88	84.73	18.23387	0.081921	0.274119	0.006985	0.025481	0.004386	0.3
-88	84.73	18.21651	0.089408	0.198811	0.005529	0.02781	0.004787	0.4
-88	84.73	18.19914	0.104383	0.176106	0.005718	0.032467	0.005589	0.4
-88	84.73	18.19914	0.119357	0.131829	0.004894	0.037125	0.006391	0.6
-88	84.73	18.18178	0.134332	0.117133	0.004894	0.041783	0.007193	0.6
-88	84.73	18.18178	0.134332	0.107083	0.004474	0.041783	0.007193	0.7
-88	84.73	18.16441	0.134332	0.107083	0.004474	0.041783	0.007193	0.7
-88	84.73	18.16441	0.141819	0.095982	0.004234	0.044111	0.007593	0.8
-88	84.73	18.14705	0.119357	0.150573	0.00559	0.037125	0.006391	0.5
-88	84.73	18.14705	0.141819	0.165691	0.007309	0.044111	0.007593	0.5
-88	84.73	18.12968	0.149306	0.115688	0.005373	0.04644	0.007994	0.7
-88	84.73	18.12968	0.156793	0.11385	0.005552	0.048769	0.008395	0.7
-88	84.73	18.12968	0.149306	0.140413	0.006521	0.04644	0.007994	0.5
-88	84.73	18.12968	0.164281	0.145458	0.007433	0.051098	0.008796	0.5
-88	84.73	18.12968	0.134332	0.138055	0.005768	0.041783	0.007193	0.5
-88	84.73	18.11232	0.119357	0.176947	0.006569	0.037125	0.006391	0.4
-88	84.73	18.11232	0.096895	0.194262	0.005855	0.030138	0.005188	0.4
-89	84.73	18.11232	0.066946	0.336279	0.007002	0.020823	0.003585	0.2
-89	84.73	18.09496	0.044485	0.399446	0.005527	0.013836	0.002382	0.2
-89	84.73	18.09496	0.036997	0.506942	0.005834	0.011508	0.001981	0.1
-3	98.93	24.67599	622.8494	1.764278	341.7954	193.731	32.33908	0.1
-3	98.93	24.67599	791.5223	1.008988	248.4078	246.195	41.09678	0.1
-3	98.93	24.67599	1335.876	0.428062	177.8644	415.5108	69.36028	0.3
-4	98.93	24.67599	758.9378	0.573279	135.3283	236.06	39.40496	0.2
-4	98.93	24.67599	697.6022	0.463946	100.6681	216.9822	36.22034	0.3
-4	98.93	24.67599	1201.704	0.205419	76.78096	373.778	62.3939	0.6
-4	98.93	24.67599	1299.458	0.149937	60.60217	404.1834	67.46941	0.9
-5	98.93	24.67599	929.5275	0.166903	48.25509	289.1202	48.26218	0.8
-5	98.93	24.65862	791.5223	0.169588	41.75167	246.1951	41.09678	0.8
-5	98.93	24.65862	887.3593	0.130252	35.95021	276.0042	46.07275	1.0
-5	98.93	24.65862	714.8528	0.153214	34.06683	222.3479	37.11601	0.9
-6	98.93	24.65862	887.3593	0.110367	30.46163	276.0043	46.07275	1.2
-6	98.93	24.65862	1025.364	0.078993	25.19319	318.9294	53.23812	1.6
-6	98.93	24.65862	536.5963	0.135695	22.64786	166.9029	27.86072	1.0
-7	98.93	24.65862	477.1774	0.137722	20.44081	148.4213	24.77562	0.9
-7	98.93	24.65862	812.6065	0.074237	18.76362	252.7532	42.1915	1.8
-7	98.93	24.65862	691.852	0.071311	15.34559	215.1936	35.92178	1.8
-7	98.93	24.65862	465.677	0.095939	13.89624	144.8441	24.17851	1.4
-8	98.93	24.65862	303.9522	0.13267	12.54281	94.54134	15.78156	1.0
-8	98.93	24.65862	360.8554	0.09992	11.21502	112.2405	18.73604	1.3
-8	98.93	24.65862	320.2445	0.110292	10.9861	99.60883	16.62748	1.2
-9	98.93	24.64126	357.7407	0.100363	11.1675	111.2716	18.57432	1.3
-9	98.93	24.64126	363.4909	0.092263	10.4313	113.0602	18.87288	1.4
-9	98.93	24.64126	456.6923	0.071893	10.2123	142.0496	23.71201	1.8
-9	98.93	24.64126	360.3762	0.093051	10.43017	112.0914	18.71116	1.4
-10	98.93	24.62389	413.3261	0.073057	9.392255	128.5609	21.46038	1.8
-10	98.93	24.62389	615.1825	0.046354	8.869746	191.3464	31.94101	2.8
-10	98.93	24.62389	525.0958	0.056279	9.191776	163.3258	27.2636	2.3
-11	98.93	24.62389	469.5104	0.068003	9.93098	146.0365	24.37754	1.9
-11	98.93	24.62389	573.0143	0.056638	10.09455	178.2304	29.75159	2.3
-11	98.93	24.62389	350.9123	0.08927	9.74357	109.1478	18.21979	1.5
-12	98.93	24.62389	258.7891	0.120196	9.674999	80.49378	13.43664	1.1
-12	98.93	24.62389	254.8358	0.122039	9.673288	79.2641	13.23138	1.1
-12	98.93	24.62389	316.6506	0.102969	10.14148	98.49096	16.44088	1.3
-13	98.93	24.62389	323.1196	0.107763	10.83049	100.5031	16.77675	1.2
-13	98.93	24.62389	366.965	0.093595	10.68304	114.1408	19.05326	1.4
-13	98.93	24.62389	419.0763	0.080524	10.49625	130.3495	21.75894	1.6
-13	98.93	24.60653	305.0304	0.104436	9.908529	94.87666	15.83754	1.2
-14	98.93	24.62389	308.1451	0.0962	9.220301	95.84547	15.99926	1.4
-14	98.93	24.62389	385.0542	0.085691	10.26295	119.7673	19.99247	1.5
-14	98.93	24.62389	401.1069	0.084146	10.49811	124.7603	20.82595	1.5
-15	98.93	24.62389	349.5945	0.082644	8.986494	108.7379	18.15136	1.6
-15	98.93	24.62389	323.7186	0.095459	9.611728	100.6894	16.80786	1.4
-15	98.93	24.60653	222.4909	0.142225	9.842485	69.20357	11.55199	0.9
-16	98.93	24.62389	216.7407	0.15312	10.32261	67.41505	11.25344	0.9

-16	98.93	24.62389	296.6447	0.117656	10.85594	92.26836	15.40215	1.1
-16	98.93	24.62389	275.4408	0.127538	10.9266	85.67314	14.30121	1.0
-16	98.93	24.62389	340.7296	0.102535	10.86674	105.9805	17.69109	1.3
-17	98.93	24.62389	373.1944	0.092446	10.73101	116.0784	19.3767	1.4
-17	98.93	24.62389	360.3762	0.088084	9.873516	112.0914	18.71116	1.5
-17	98.93	24.62389	363.9701	0.080277	9.088118	113.2092	18.89776	1.6
-18	98.93	24.62389	275.4408	0.105982	9.079763	85.67309	14.30121	1.2
-18	98.93	24.62389	272.5656	0.107067	9.077011	84.77879	14.15193	1.2
-18	98.93	24.62389	385.0542	0.079576	9.53065	119.7673	19.99247	1.6
-18	98.93	24.62389	418.9565	0.07577	9.87377	130.3122	21.75272	1.7
-19	98.93	24.62389	307.0669	0.099899	9.541377	95.51008	15.94328	1.3
-19	98.93	24.62389	227.1629	0.133039	9.40013	70.65674	11.79457	1.0
-19	98.93	24.62389	212.428	0.138054	9.121715	66.07362	11.02952	0.9
-20	98.93	24.62389	275.321	0.104113	8.915802	85.63582	14.29499	1.3
-20	98.93	24.62389	271.1281	0.107837	9.094054	84.33171	14.07729	1.2
-20	98.93	24.62389	255.0754	0.119637	9.491826	79.33868	13.24382	1.1
-20	98.93	24.62389	239.2623	0.133016	9.899034	74.42015	12.42278	1.0
-21	98.93	24.62389	248.846	0.129179	9.998623	77.40106	12.92038	1.0
-21	98.93	24.64126	269.2114	0.112602	9.428759	83.73549	13.97778	1.2
-21	98.93	24.64126	256.9922	0.135704	10.84749	79.93487	13.34334	1.0
-22	98.93	24.64126	256.7526	0.132718	10.59889	79.8603	13.3309	1.0
-22	98.93	24.64126	243.3354	0.137284	10.39061	75.68706	12.63426	0.9
-22	98.93	24.64126	263.8205	0.108261	8.883726	82.05872	13.69787	1.2
-23	98.93	24.64126	265.1383	0.107253	8.845032	82.46862	13.7663	1.2
-23	98.93	24.64126	295.3269	0.095445	8.76744	91.85847	15.33372	1.4
-23	98.93	24.64126	273.524	0.101094	8.600787	85.07688	14.20169	1.3
-24	98.93	24.64126	260.586	0.104048	8.433387	81.0527	13.52994	1.3
-24	98.93	24.64126	245.0125	0.108028	8.232667	76.20871	12.72134	1.2
-24	98.93	24.64126	259.2683	0.099477	8.022132	80.64282	13.46152	1.3
-24	98.93	24.64126	249.2054	0.104407	8.092885	77.51286	12.93904	1.2
-25	98.93	24.64126	248.9658	0.10754	8.32769	77.43836	12.9266	1.2
-25	98.93	24.64126	227.6421	0.124363	8.805603	70.80582	11.81945	1.0
-25	98.93	24.64126	201.4068	0.145977	9.144775	62.64553	10.45728	0.9
-26	98.93	24.64126	218.897	0.13592	9.254205	68.08572	11.36539	1.0
-26	98.93	24.65862	222.9701	0.133486	9.257579	69.35259	11.57687	1.0
-26	98.93	24.64126	222.8503	0.132596	9.190947	69.31536	11.57065	1.0
-26	98.93	24.65862	211.829	0.137112	9.033967	65.88731	10.99841	0.9
-27	98.93	24.65862	193.2606	0.147901	8.890586	60.11178	10.03432	0.9
-27	98.93	24.65862	206.7976	0.132862	8.54601	64.32231	10.73718	1.0
-27	98.93	24.65862	203.6829	0.128292	8.127756	63.35352	10.57546	1.0
-28	98.93	24.65862	189.1876	0.130196	7.661377	58.84491	9.822846	1.0
-28	98.93	24.65862	150.733	0.155452	7.288216	46.884	7.826237	0.8
-28	98.93	24.65862	130.4875	0.175007	7.102983	40.58683	6.775067	0.7
-28	98.93	24.65862	150.9726	0.149307	7.011243	46.95854	7.838677	0.9
-29	98.93	24.65862	134.9199	0.171088	7.17981	41.9655	7.005202	0.8
-29	98.93	24.65862	141.7483	0.170936	7.536447	44.0894	7.359741	0.8
-29	98.93	24.65862	163.3116	0.153629	7.803825	50.79643	8.479333	0.8
-30	98.93	24.65862	172.7755	0.142279	7.646093	53.7401	8.97071	0.9
-30	98.93	24.65862	174.9318	0.133169	7.245824	54.41078	9.082668	1.0
-30	98.93	24.65862	164.6293	0.165652	8.482445	51.20632	8.54775	0.8
-30	98.93	24.65862	166.4263	0.161657	8.368224	51.76524	8.641052	0.8
-31	98.93	24.65862	176.1298	0.151402	8.294314	54.78342	9.144869	0.9
-31	98.93	24.65862	178.7653	0.1245	6.92261	55.60316	9.281708	1.0
-31	98.93	24.65862	162.3532	0.140402	7.09007	50.49832	8.429572	0.9
-32	98.93	24.65862	156.4832	0.149144	7.259224	48.67255	8.124794	0.9
-32	98.93	24.65862	150.3736	0.157027	7.344492	46.77222	7.807577	0.8
-32	98.93	24.65862	148.9361	0.159092	7.369963	46.32508	7.73294	0.8
-32	98.93	24.65862	159.8375	0.149808	7.447857	49.71588	8.298954	0.9
-33	98.93	24.65862	168.8222	0.143765	7.549174	52.51048	8.76545	0.9
-33	98.93	24.64126	167.6243	0.149025	7.769861	52.13787	8.703254	0.9
-33	98.93	24.64126	155.1655	0.166618	8.041447	48.26269	8.056378	0.8
-34	98.93	24.64126	142.5869	0.18539	8.222096	44.35022	7.403282	0.7
-34	98.93	24.62389	136.9565	0.193614	8.247766	42.59893	7.110945	0.7
-34	98.93	24.60653	132.7636	0.199589	8.242003	41.29479	6.893244	0.7
-34	98.93	24.58917	134.6803	0.195172	8.175946	41.89095	6.992762	0.7
-35	98.93	24.5718	136.7169	0.190924	8.118917	42.52441	7.098504	0.7
-35	98.93	24.55444	134.2011	0.191668	8.000592	41.74193	6.967881	0.7
-35	98.93	24.53707	133.2428	0.188074	7.79449	41.44383	6.918125	0.7
-36	98.93	24.51971	130.3677	0.186251	7.552405	40.54957	6.768846	0.7
-36	98.93	24.50235	130.1281	0.183633	7.432556	40.47503	6.756406	0.7
-36	98.93	24.50235	127.852	0.18519	7.36446	39.76707	6.638228	0.7

-36	98.93	24.48498	124.7373	0.190131	7.376746	38.79827	6.476509	0.7
-37	98.93	24.46762	117.3099	0.20175	7.361479	36.48809	6.09087	0.6
-37	98.93	24.45025	109.4034	0.211905	7.210862	34.02883	5.680355	0.6
-37	98.93	24.45025	104.0125	0.215383	6.968091	32.35206	5.400453	0.6
-38	98.93	24.43289	101.976	0.212667	6.745494	31.71861	5.294716	0.6
-38	98.93	24.43289	105.2105	0.20089	6.574064	32.72468	5.462655	0.6
-38	98.93	24.43289	110.4815	0.187355	6.438303	34.36417	5.736331	0.7
-39	98.93	24.45025	112.3983	0.181702	6.352383	34.96037	5.835854	0.7
-39	98.93	24.45025	105.6897	0.193087	6.347488	32.87372	5.487535	0.7
-39	98.93	24.45025	99.58007	0.207341	6.422039	30.97338	5.170316	0.6
-39	98.93	24.45025	88.91822	0.233764	6.465252	27.65713	4.61674	0.6
-40	98.93	24.46762	85.20454	0.246924	6.543975	26.50201	4.423921	0.5
-40	98.93	24.46762	93.59026	0.226719	6.599863	29.11031	4.859318	0.6
-40	98.93	24.46762	96.46537	0.219425	6.583762	30.00459	5.008597	0.6
-41	98.93	24.45025	92.3923	0.226589	6.511657	28.73771	4.797118	0.6
-41	98.93	24.43289	97.90292	0.209103	6.367533	30.45173	5.083236	0.6
-41	98.93	24.41552	102.4552	0.192653	6.139407	31.86766	5.319596	0.7
-41	98.93	24.3808	97.78313	0.195402	5.943033	30.41447	5.077017	0.7
-42	98.93	24.36343	83.64719	0.22484	5.849794	26.01763	4.343062	0.6
-42	98.93	24.3287	74.30309	0.255423	5.903146	23.11123	3.857905	0.5
-42	98.93	24.31134	75.26146	0.260116	6.089131	23.40932	3.907665	0.5
-42	98.93	24.27661	73.58432	0.275267	6.300219	22.88766	3.820586	0.5
-43	98.93	24.24188	70.94881	0.289427	6.387055	22.06792	3.683747	0.5
-43	98.93	24.18979	71.66758	0.286638	6.389595	22.29148	3.721066	0.5
-43	98.93	24.1377	74.42289	0.27471	6.359113	23.1485	3.864125	0.5
-44	98.93	24.0856	77.53759	0.262533	6.331578	24.1173	4.025844	0.5
-44	98.93	24.03351	78.85535	0.260066	6.378687	24.52717	4.094264	0.5
-44	98.93	23.98142	78.73555	0.265898	6.51183	24.48992	4.088044	0.5
-45	98.93	23.92933	77.53759	0.281943	6.79971	24.11729	4.025844	0.5
-45	98.93	23.85987	75.98024	0.309466	7.31357	23.63289	3.944985	0.4
-45	98.93	23.79041	73.58432	0.349171	7.991719	22.88767	3.820586	0.4
-45	98.93	23.70359	73.34473	0.380381	8.677688	22.81315	3.808146	0.3
-46	98.93	23.61677	74.0635	0.40833	9.40658	23.03671	3.845465	0.3
-46	98.93	23.47786	73.22493	0.444035	10.11329	22.77588	3.801926	0.3
-46	98.93	23.32158	69.03207	0.534023	11.4664	21.47174	3.584227	0.2
-47	98.93	23.14794	64.47981	0.646553	12.96714	20.0558	3.347869	0.2
-47	98.93	22.9743	60.28695	0.762265	14.29373	18.75166	3.13017	0.2
-47	98.93	22.78329	57.41184	0.849872	15.17648	17.85738	2.980891	0.2
-47	98.93	22.59228	53.33878	0.949099	15.74602	16.59049	2.769413	0.1
-48	98.93	22.38391	48.66673	1.094362	16.56569	15.13731	2.526835	0.1
-48	98.93	22.17554	45.55203	1.22862	17.40771	14.1685	2.365116	0.1
-48	98.93	21.98454	43.87489	1.417215	19.34051	13.64685	2.278037	0.1
-49	98.93	21.74144	41.95815	1.72347	22.49243	13.05066	2.178517	0.1
-49	98.93	21.42888	39.44243	2.173966	26.67059	12.26817	2.047898	0.1
-49	98.93	21.15105	37.52569	2.541114	29.65986	11.67199	1.948379	0.1
-50	98.93	20.89059	36.32773	2.609739	29.48842	11.29938	1.886179	0.0
-50	98.93	20.71695	35.48915	2.572131	28.39259	11.03855	1.842639	0.1
-50	98.93	20.54331	35.24957	2.408699	26.40904	10.96403	1.8302	0.1
-50	98.93	20.36967	35.00997	2.207819	24.04205	10.8895	1.817759	0.1
-51	98.93	20.19602	33.81201	2.03892	21.4431	10.51689	1.75556	0.1
-51	98.93	20.00502	32.61405	1.894988	19.22328	10.14428	1.69336	0.1
-51	98.93	19.84874	31.53588	1.754061	17.20545	9.808921	1.63738	0.1
-52	98.93	19.72719	30.33792	1.633487	15.41409	9.436309	1.575181	0.1
-52	98.93	19.64037	29.02017	1.545349	13.94899	9.026431	1.506762	0.1
-52	98.93	19.55355	27.70241	1.485213	12.79743	8.616559	1.438342	0.1
-53	98.93	19.46673	26.26486	1.457251	11.9049	8.16942	1.363703	0.1
-53	98.93	19.37991	24.8273	1.451358	11.2078	7.722284	1.289063	0.1
-53	98.93	19.31045	23.98124	1.403742	10.47069	7.459125	1.245135	0.1
-54	98.93	19.24099	23.27744	1.357836	9.831024	7.240215	1.208592	0.1
-54	98.93	19.15417	22.25917	1.333977	9.23578	6.923493	1.155723	0.1
-54	98.93	19.08471	21.3607	1.300472	8.64038	6.644034	1.109073	0.1
-54	98.93	19.03262	20.75424	1.245531	8.040401	6.4554	1.077585	0.1
-55	98.93	18.98053	20.03546	1.193914	7.440271	6.231832	1.040265	0.1
-55	98.93	18.9458	19.25678	1.143128	6.846915	5.989631	0.999835	0.1
-55	98.93	18.89371	18.5455	1.092226	6.300387	5.768392	0.962904	0.1
-56	98.93	18.84162	17.84169	1.047156	5.811169	5.549478	0.926362	0.1
-56	98.93	18.80689	17.1304	1.008162	5.37173	5.328241	0.889431	0.1
-56	98.93	18.77216	16.44906	0.974705	4.9869	5.116316	0.854055	0.1
-57	98.93	18.73743	15.49069	0.961715	4.633757	4.818224	0.804295	0.1
-57	98.93	18.7027	14.4874	0.959178	4.322212	4.506164	0.752203	0.1
-57	98.93	18.68534	13.52155	0.964297	4.055584	4.205742	0.702055	0.1

-58	98.93	18.63325	12.81026	0.959977	3.825032	3.984502	0.665124	0.1
-58	98.93	18.59852	12.376	0.942479	3.628008	3.84943	0.642577	0.1
-58	98.93	18.54642	12.15138	0.92344	3.490203	3.779565	0.630914	0.1
-58	98.93	18.52906	11.76953	0.914296	3.347048	3.660795	0.611088	0.1
-59	98.93	18.49433	11.59732	0.882925	3.184915	3.607231	0.602147	0.1
-59	98.93	18.4596	11.23045	0.847987	2.962117	3.493118	0.583098	0.2
-59	98.93	18.42488	10.98337	0.803965	2.746557	3.416266	0.57027	0.2
-60	98.93	18.40751	10.58654	0.769221	2.532921	3.292839	0.549666	0.2
-60	98.93	18.39015	9.912688	0.756708	2.333116	3.083243	0.514679	0.2
-60	98.93	18.35542	9.231348	0.755266	2.168609	2.871319	0.479303	0.2
-61	98.93	18.33805	8.415237	0.78408	2.05231	2.617476	0.436929	0.2
-61	98.93	18.32069	7.531741	0.840301	1.968551	2.342673	0.391057	0.2
-61	98.93	18.30333	6.872862	0.893533	1.910136	2.137735	0.356847	0.1
-61	98.93	18.28596	6.857888	0.867251	1.849913	2.133078	0.35607	0.2
-62	98.93	18.2686	7.127429	0.796783	1.766401	2.216916	0.370065	0.2
-62	98.93	18.23387	7.434407	0.720324	1.665676	2.312398	0.386003	0.2
-62	98.93	18.21651	7.381996	0.671697	1.542282	2.296096	0.383282	0.2
-62	98.93	18.19914	7.232251	0.621553	1.398196	2.249519	0.375507	0.2
-63	98.93	18.16441	7.007633	0.584732	1.274512	2.179654	0.363845	0.2
-63	98.93	18.14705	6.543423	0.577837	1.176052	2.035266	0.339742	0.2
-63	98.93	18.14705	6.11665	0.581213	1.105771	1.902522	0.317584	0.2
-64	98.93	18.12968	5.682389	0.598325	1.05751	1.76745	0.295036	0.2
-64	98.93	18.11232	5.427822	0.603981	1.019682	1.68827	0.281819	0.2
-64	98.93	18.09496	5.195717	0.604998	0.977722	1.616076	0.269768	0.2
-64	98.93	18.07759	4.971099	0.594732	0.919581	1.546211	0.258105	0.2
-65	98.93	18.06023	4.791405	0.571782	0.852136	1.490318	0.248775	0.2
-65	98.93	18.0255	4.596736	0.544225	0.778116	1.429769	0.238668	0.2
-65	98.93	18.00813	4.417042	0.517591	0.711107	1.373877	0.229338	0.3
-65	98.93	17.97341	4.25981	0.492014	0.651904	1.324971	0.221174	0.3
-66	98.93	17.93868	4.080116	0.475042	0.602866	1.26908	0.211844	0.3
-66	98.93	17.92131	3.930371	0.460934	0.563493	1.222503	0.20407	0.3
-66	98.93	17.90395	3.855498	0.444292	0.532801	1.199214	0.200182	0.3
-67	98.93	17.88659	3.765651	0.430355	0.504061	1.171268	0.195517	0.3
-67	98.93	17.86922	3.556008	0.432472	0.47834	1.106061	0.184632	0.3
-67	98.93	17.85186	3.503597	0.416195	0.453552	1.089759	0.181911	0.3
-67	98.93	17.83449	3.33139	0.411793	0.426698	1.036196	0.17297	0.3
-68	98.93	17.81713	3.271492	0.393911	0.40083	1.017565	0.16986	0.3
-68	98.93	17.79976	3.106772	0.388709	0.375621	0.966331	0.161307	0.3
-68	98.93	17.7824	2.927078	0.388665	0.353856	0.910439	0.151977	0.3
-68	98.93	17.7824	2.769846	0.389641	0.335689	0.861533	0.143814	0.3
-69	98.93	17.76504	2.560203	0.402037	0.320152	0.796325	0.132929	0.3
-69	98.93	17.76504	2.320611	0.425629	0.30722	0.721803	0.120489	0.3
-69	98.93	17.74767	2.298149	0.413095	0.295287	0.714816	0.119323	0.3
-70	98.93	17.74767	2.18584	0.416961	0.283485	0.679884	0.113491	0.3
-70	98.93	17.73031	2.125942	0.409001	0.270453	0.661253	0.110381	0.3
-70	98.93	17.73031	2.118455	0.390238	0.257137	0.658924	0.109993	0.3
-70	98.93	17.73031	2.133429	0.365422	0.242487	0.663582	0.11077	0.4
-71	98.93	17.71294	2.066044	0.355009	0.228137	0.642622	0.107271	0.4
-71	98.93	17.71294	1.968709	0.351253	0.215089	0.612347	0.102218	0.4
-71	98.93	17.71294	1.848913	0.352666	0.202813	0.575086	0.095998	0.4
-71	98.93	17.69558	1.833939	0.339124	0.193446	0.570428	0.09522	0.4
-72	98.93	17.69558	1.729117	0.349359	0.187894	0.537825	0.089778	0.4
-72	98.93	17.67822	1.631783	0.359816	0.182624	0.50755	0.084724	0.4
-72	98.93	17.67822	1.541936	0.370141	0.177521	0.479604	0.080059	0.4
-72	98.93	17.67822	1.489525	0.3718	0.172256	0.463302	0.077338	0.4
-73	98.93	17.67822	1.414653	0.375461	0.165208	0.440014	0.07345	0.3
-73	98.93	17.66085	1.362242	0.373697	0.15834	0.423712	0.070729	0.3
-73	98.93	17.66085	1.279882	0.376943	0.150059	0.398094	0.066453	0.3
-74	98.93	17.66085	1.205009	0.379096	0.142088	0.374806	0.062566	0.3
-74	98.93	17.64349	1.12265	0.383204	0.133811	0.349189	0.058289	0.3
-74	98.93	17.64349	1.047777	0.388648	0.126661	0.325901	0.054402	0.3
-74	98.93	17.64349	0.995366	0.38875	0.120357	0.309599	0.051681	0.3
-74	98.93	17.62612	0.950443	0.385737	0.114034	0.295626	0.049348	0.3
-75	98.93	17.62612	0.935468	0.372606	0.108416	0.290968	0.048571	0.3
-75	98.93	17.62612	0.927981	0.35642	0.102877	0.288639	0.048182	0.4
-75	98.93	17.62612	0.913006	0.341817	0.09707	0.283982	0.047404	0.4
-76	98.93	17.62612	0.890545	0.334457	0.092643	0.276995	0.046238	0.4
-76	98.93	17.60876	0.853108	0.336154	0.089199	0.265351	0.044294	0.4
-76	98.93	17.60876	0.815672	0.334086	0.08476	0.253707	0.042351	0.4
-76	98.93	17.60876	0.808185	0.31996	0.080431	0.251378	0.041962	0.4
-77	98.93	17.60876	0.770749	0.31812	0.076264	0.239734	0.040018	0.4

-77	98.93	17.60876	0.748287	0.31339	0.072941	0.232747	0.038852	0.4
-77	98.93	17.59139	0.725825	0.31023	0.070038	0.225761	0.037686	0.4
-77	98.93	17.59139	0.688389	0.309838	0.066341	0.214116	0.035742	0.4
-78	98.93	17.59139	0.643465	0.315114	0.063068	0.200143	0.033409	0.4
-78	98.93	17.57403	0.606029	0.320103	0.060339	0.188499	0.031466	0.4
-78	98.93	17.57403	0.531156	0.346801	0.057295	0.165211	0.027578	0.4
-78	98.93	17.57403	0.501207	0.353493	0.055108	0.155896	0.026023	0.4
-79	98.93	17.57403	0.478746	0.348199	0.05185	0.148909	0.024857	0.4
-79	98.93	17.55667	0.471258	0.333567	0.048894	0.14658	0.024468	0.4
-79	98.93	17.55667	0.471258	0.321829	0.047174	0.14658	0.024468	0.4
-79	98.93	17.5393	0.463771	0.314054	0.045303	0.144251	0.02408	0.4
-80	98.93	17.5393	0.456284	0.310074	0.044006	0.141922	0.023691	0.4
-80	98.93	17.5393	0.441309	0.311192	0.042716	0.137265	0.022913	0.4
-80	98.93	17.5393	0.418847	0.316501	0.041233	0.130278	0.021747	0.4
-81	98.93	17.52194	0.388898	0.324003	0.039192	0.120963	0.020192	0.4
-81	98.93	17.52194	0.381411	0.322735	0.038287	0.118634	0.019803	0.4
-81	98.93	17.52194	0.388898	0.2965	0.035865	0.120963	0.020192	0.4
-81	98.93	17.52194	0.381411	0.288113	0.03418	0.118634	0.019803	0.5
-82	98.93	17.52194	0.366437	0.28258	0.032207	0.113976	0.019026	0.5
-82	98.93	17.52194	0.343975	0.280676	0.030029	0.10699	0.01786	0.5
-82	98.93	17.50457	0.299051	0.305189	0.028388	0.093017	0.015527	0.4
-82	98.93	17.50457	0.239153	0.376066	0.027974	0.074386	0.012417	0.3
-83	98.93	17.48721	0.224179	0.385732	0.026897	0.069729	0.01164	0.3
-83	98.93	17.48721	0.224179	0.368829	0.025718	0.069729	0.01164	0.4
-83	98.93	17.48721	0.246641	0.324552	0.024898	0.076715	0.012806	0.4
-84	98.93	17.46984	0.246641	0.303482	0.023282	0.076715	0.012806	0.4
-84	98.93	17.46984	0.254128	0.275943	0.021812	0.079044	0.013195	0.5
-84	98.93	17.45248	0.261615	0.261383	0.021269	0.081373	0.013583	0.5
-84	98.93	17.45248	0.239153	0.268135	0.019946	0.074386	0.012417	0.5
-84	98.93	17.45248	0.246641	0.247164	0.018961	0.076715	0.012806	0.5
-85	98.93	17.45248	0.231666	0.252156	0.01817	0.072057	0.012028	0.5
-85	98.93	17.45248	0.156793	0.351817	0.017158	0.048769	0.008141	0.4
-85	98.93	17.45248	0.156793	0.307392	0.014991	0.048769	0.008141	0.4
-86	98.93	17.45248	0.19423	0.248497	0.015013	0.060413	0.010085	0.5
-86	98.93	17.45248	0.201717	0.235938	0.014803	0.062742	0.010473	0.6
-86	98.93	17.45248	0.186743	0.236574	0.013741	0.058084	0.009696	0.6
-86	98.93	17.45248	0.201717	0.202599	0.012711	0.062742	0.010473	0.6
-87	98.93	17.45248	0.149306	0.247049	0.011473	0.04644	0.007752	0.5
-87	98.93	17.45248	0.104383	0.330926	0.010744	0.032467	0.00542	0.4
-87	98.93	17.45248	0.134332	0.23797	0.009943	0.041783	0.006975	0.5
-88	98.93	17.45248	0.164281	0.177927	0.009092	0.051098	0.00853	0.7
-88	98.93	17.43512	0.171768	0.16492	0.008811	0.053427	0.008918	0.8
-88	98.93	17.43512	0.306539	0.094085	0.008971	0.095346	0.015916	1.4
-88	98.93	17.43512	0.126844	0.199047	0.007853	0.039454	0.006586	0.7
-88	98.93	17.43512	0.126844	0.178036	0.007024	0.039454	0.006586	0.7
-88	98.93	17.41775	0.179255	0.1151	0.006417	0.055756	0.009307	1.1
-88	98.93	17.41775	0.164281	0.13687	0.006994	0.051098	0.00853	1.0
-88	98.93	17.40039	0.186743	0.113177	0.006574	0.058084	0.009696	1.2
-88	98.93	17.40039	0.179255	0.102282	0.005703	0.055756	0.009307	1.3
-88	98.93	17.40039	0.096895	0.212637	0.006409	0.030138	0.005031	0.6
-88	98.93	17.40039	0.164281	0.144576	0.007388	0.051098	0.00853	0.9
-88	98.93	17.40039	0.186743	0.122197	0.007098	0.058084	0.009696	1.1
-88	98.93	17.38302	0.186743	0.102597	0.005959	0.058084	0.009696	1.3
-88	98.93	17.38302	0.179255	0.103321	0.005761	0.055756	0.009307	1.3
-88	98.93	17.38302	0.089408	0.193527	0.005382	0.02781	0.004642	0.7
-89	98.93	17.38302	0.141819	0.13985	0.006169	0.044111	0.007363	0.9
-89	98.93	17.38302	0.171768	0.107373	0.005737	0.053427	0.008918	1.2
-89	98.93	17.38302	0.156793	0.112612	0.005492	0.048769	0.008141	1.2
-89	98.93	17.36566	0.171768	0.090108	0.004814	0.053427	0.008918	1.4
-89	98.93	17.36566	0.119357	0.141339	0.005247	0.037125	0.006197	0.9
-90	98.93	17.36566	0.089408	0.195929	0.005449	0.027809	0.004642	0.7
-90	98.93	17.36566	0.134332	0.129425	0.005408	0.041783	0.006975	1.0
-90	98.93	17.3483	0.141819	0.119554	0.005274	0.044111	0.007363	1.1
-90	98.93	17.3483	0.164281	0.073463	0.003754	0.051098	0.00853	1.8
-90	98.93	17.3483	0.141819	0.104546	0.004612	0.044111	0.007363	1.2
-90	98.93	17.3483	0.074434	0.234241	0.005423	0.023152	0.003865	0.6
-90	98.93	17.33093	0.119357	0.101954	0.003785	0.037125	0.006197	1.3
-90	98.93	17.33093	0.149306	0.096343	0.004474	0.04644	0.007752	1.4
-90	98.93	17.33093	0.156793	0.083132	0.004054	0.048769	0.008141	1.6
-90	98.93	17.33093	0.164281	0.079343	0.004054	0.051098	0.00853	1.6
-90	98.93	17.33093	0.089408	0.130687	0.003634	0.02781	0.004642	1.0

-90	98.93	17.33093	0.096895	0.148455	0.004474	0.030138	0.005031	0.9
-90	98.93	17.31357	0.149306	0.087301	0.004054	0.04644	0.007752	1.5
-90	98.93	17.31357	0.134332	0.107083	0.004474	0.041783	0.006975	1.2
-90	98.93	17.31357	0.164281	0.087561	0.004474	0.051098	0.00853	1.5
-90	98.93	17.31357	0.164281	0.079343	0.004054	0.051098	0.00853	1.6
-90	98.93	17.31357	0.066946	0.194701	0.004054	0.020823	0.003476	0.7
-90	98.93	17.33093	0.11187	0.190243	0.00662	0.034796	0.005808	0.7
-90	98.93	17.33093	0.156793	0.127365	0.006211	0.048769	0.008141	1.0
-90	98.93	17.31357	0.141819	0.121826	0.005374	0.044111	0.007363	1.1
-90	98.93	17.31357	0.164281	0.113593	0.005804	0.051098	0.00853	1.1
-90	98.93	17.31357	0.11187	0.15218	0.005295	0.034796	0.005808	0.9
-90	98.93	17.31357	0.081921	0.206421	0.00526	0.025481	0.004253	0.6
-90	98.93	17.31357	0.134332	0.114489	0.004784	0.041783	0.006975	1.1
-90	98.93	17.31357	0.119357	0.10806	0.004012	0.037125	0.006197	1.2
-90	98.93	17.2962	0.156793	0.080429	0.003922	0.048769	0.008141	1.6
-90	98.93	17.2962	0.134332	0.120372	0.005029	0.041783	0.006975	1.1
-1	118.02	24.64126	868.1919	0.329266	88.91584	270.0425	45.05766	0.3
-1	118.02	24.64126	3275.614	0.073878	75.26991	1018.847	169.9987	1.5
-1	118.02	24.64126	1529.466	0.148051	70.43142	475.725	79.37665	0.7
-1	118.02	24.64126	762.7713	0.268695	63.7486	237.2523	39.58652	0.4
-1	118.02	24.64126	990.8631	0.184192	56.76761	308.198	51.42409	0.6
-2	118.02	24.64126	778.1052	0.211167	51.10711	242.0218	40.38232	0.5
-2	118.02	24.64126	766.6048	0.207029	49.36503	238.4448	39.78547	0.5
-2	118.02	24.64126	473.3439	0.310454	45.7078	147.2289	24.56573	0.3
-3	118.02	24.64126	996.6133	0.140801	43.64639	309.9866	51.72251	0.8
-3	118.02	24.64126	916.1103	0.135606	38.6406	284.947	47.54455	0.8
-3	118.02	24.64126	550.0134	0.205967	35.23606	171.0761	28.54475	0.5
-3	118.02	24.64126	864.3584	0.115694	31.10427	268.8501	44.85871	0.9
-4	118.02	24.64126	776.1885	0.116631	28.15778	241.4256	40.28285	0.9
-4	118.02	24.64126	632.4332	0.132348	26.03436	196.712	32.82219	0.8
-4	118.02	24.64126	619.016	0.124979	24.06337	192.5387	32.12586	0.9
-4	118.02	24.64126	569.1808	0.127584	22.58715	177.038	29.5395	0.8
-5	118.02	24.64126	417.7585	0.154915	20.12958	129.9396	21.68095	0.7
-5	118.02	24.64126	509.7619	0.122014	19.34613	158.5564	26.45576	0.9
-5	118.02	24.64126	548.0967	0.107448	18.31781	170.48	28.44527	1.0
-5	118.02	24.64126	1036.865	0.053898	17.38255	322.5064	53.81151	2.0
-6	118.02	24.64126	707.1859	0.080117	17.62285	219.9631	36.70173	1.3
-6	118.02	24.64126	417.7585	0.132966	17.27761	129.9396	21.68095	0.8
-6	118.02	24.64126	446.5096	0.115949	16.10329	138.8824	23.17308	0.9
-7	118.02	24.64126	507.8452	0.092274	14.57561	157.9602	26.35629	1.2
-7	118.02	24.64126	448.4263	0.093735	13.07407	139.4785	23.27255	1.1
-7	118.02	24.62389	427.3422	0.089346	11.87591	132.9205	22.17832	1.2
-8	118.02	24.64126	849.0245	0.044253	11.68636	264.0806	44.06291	2.4
-8	118.02	24.62389	666.9344	0.055585	11.53069	207.4433	34.61275	1.9
-8	118.02	24.62389	550.0134	0.067123	11.48313	171.0762	28.54475	1.6
-8	118.02	24.62389	603.6821	0.056092	10.5323	187.7693	31.33006	1.9
-9	118.02	24.62389	442.6761	0.071391	9.829845	137.69	22.97413	1.5
-9	118.02	24.62389	431.1757	0.073698	9.883853	134.1129	22.37728	1.5
-9	118.02	24.62389	523.1791	0.061577	10.02045	162.7296	27.15209	1.7
-10	118.02	24.62389	550.0134	0.058821	10.06286	171.0762	28.54475	1.8
-10	118.02	24.62389	551.9302	0.060135	10.32351	171.6724	28.64423	1.8
-10	118.02	24.62389	486.7611	0.06886	10.42548	151.4022	25.26206	1.6
-10	118.02	24.62389	446.5096	0.070271	9.759407	138.8823	23.17308	1.5
-11	118.02	24.62389	427.3422	0.068943	9.163943	132.9205	22.17832	1.6
-11	118.02	24.62389	348.5164	0.082385	8.930784	108.4025	18.0874	1.3
-11	118.02	24.62389	362.1731	0.078262	8.816286	112.6503	18.79616	1.4
-12	118.02	24.62389	433.4518	0.068497	9.234778	134.8209	22.4954	1.6
-12	118.02	24.62389	431.8945	0.072122	9.688563	134.3364	22.41458	1.5
-12	118.02	24.62389	405.8987	0.075246	9.499831	126.2508	21.06544	1.4
-12	118.02	24.62389	353.9072	0.080339	8.843619	110.0793	18.36717	1.3
-13	118.02	24.62389	298.801	0.088515	8.226498	92.93908	15.50726	1.2
-13	118.02	24.62389	364.2097	0.070988	8.04174	113.2838	18.90186	1.5
-13	118.02	24.62389	411.6489	0.063519	8.132884	128.0393	21.36387	1.7
-14	118.02	24.62389	428.5402	0.061424	8.187381	133.2931	22.2405	1.7
-14	118.02	24.62389	318.4475	0.081345	8.057184	99.04993	16.52688	1.3
-14	118.02	24.62389	322.1612	0.079776	7.993931	100.205	16.71961	1.3
-14	118.02	24.62389	308.3847	0.084448	8.100225	95.91995	16.00463	1.3
-15	118.02	24.62389	312.6973	0.084418	8.210609	97.26136	16.22845	1.3
-15	118.02	24.62389	383.1375	0.06937	8.266873	119.1711	19.88418	1.5
-15	118.02	24.62389	372.4756	0.071733	8.310613	115.8548	19.33084	1.5
-16	118.02	24.62389	280.9514	0.096181	8.405014	87.38711	14.58089	1.1

-16	118.02	24.62389	259.7475	0.102263	8.262013	80.79189	13.48045	1.1
-16	118.02	24.62389	255.6744	0.102178	8.125674	79.525	13.26906	1.1
-16	118.02	24.62389	291.9726	0.086379	7.844558	90.81515	15.15287	1.2
-17	118.02	24.62389	347.6778	0.072259	7.814228	108.1417	18.04388	1.5
-17	118.02	24.62389	278.4357	0.091595	7.932587	86.60462	14.45033	1.2
-17	118.02	24.62389	227.1629	0.114418	8.084366	70.65673	11.78936	0.9
-18	118.02	24.62389	204.761	0.124333	7.918616	63.68888	10.62674	0.9
-18	118.02	24.62389	204.6413	0.115408	7.345914	63.65158	10.62053	0.9
-18	118.02	24.62389	207.8757	0.104787	6.775294	64.65765	10.78839	1.0
-19	118.02	24.62389	203.9225	0.102407	6.495487	63.42803	10.58323	1.0
-19	118.02	24.62389	226.6837	0.089591	6.31689	70.50773	11.76449	1.2
-19	118.02	24.62389	230.1578	0.088029	6.30183	71.58828	11.94479	1.2
-19	118.02	24.62389	269.6906	0.076437	6.411891	83.88453	13.99648	1.4
-20	118.02	24.62389	251.1221	0.079789	6.232257	78.10904	13.0328	1.3
-20	118.02	24.62389	209.1935	0.093146	6.060804	65.06757	10.85678	1.2
-20	118.02	24.62389	185.4739	0.105341	6.077108	57.68981	9.625776	1.0
-21	118.02	24.62389	200.8078	0.101704	6.35237	62.45927	10.42158	1.1
-21	118.02	24.62389	223.3295	0.09834	6.831099	69.46442	11.59042	1.1
-21	118.02	24.62389	220.095	0.104677	7.166007	68.45835	11.42255	1.0
-21	118.02	24.62389	227.2827	0.102677	7.258637	70.69403	11.79558	1.0
-22	118.02	24.62389	228.8401	0.100773	7.172846	71.17839	11.87641	1.1
-22	118.02	24.62389	225.8452	0.100335	7.048197	70.24685	11.72098	1.1
-22	118.02	24.62389	197.4535	0.109661	6.734923	61.41596	10.2475	1.0
-23	118.02	24.62389	199.2504	0.104853	6.498235	61.97483	10.34075	1.0
-23	118.02	24.62389	194.818	0.104058	6.305507	60.59619	10.11072	1.0
-23	118.02	24.62389	193.2606	0.103554	6.224787	60.1118	10.02989	1.0
-23	118.02	24.62389	173.2547	0.111863	6.028214	53.88912	8.99162	1.0
-24	118.02	24.62389	134.4407	0.137795	5.762098	41.81642	6.977241	0.8
-24	118.02	24.62389	153.6081	0.114944	5.491804	47.77829	7.971996	0.9
-24	118.02	24.62389	179.2445	0.095535	5.326309	55.75222	9.302481	1.1
-24	118.02	24.62389	182.3592	0.092941	5.271687	56.721	9.464128	1.2
-25	118.02	24.62389	157.0822	0.104841	5.122405	48.85885	8.152295	1.0
-25	118.02	24.62389	158.9989	0.102602	5.074173	49.45501	8.251769	1.0
-25	118.02	24.62389	132.524	0.146778	6.050208	41.22027	6.877767	0.7
-26	118.02	24.62389	142.1077	0.137183	6.063647	44.20119	7.375145	0.8
-26	118.02	24.62389	162.2334	0.120032	6.056925	50.46109	8.419634	0.9
-26	118.02	24.62389	177.9267	0.109323	6.050208	55.34234	9.234089	1.0
-26	118.02	24.62389	171.2181	0.095024	5.060573	53.25567	8.885924	1.1
-27	118.02	24.62389	166.7857	0.097949	5.081292	51.87704	8.65589	1.1
-27	118.02	24.62389	149.2955	0.106914	4.964734	46.43688	7.748179	1.0
-27	118.02	24.62389	151.6914	0.101441	4.786184	47.18209	7.872522	1.1
-28	118.02	24.62389	174.0932	0.087528	4.739615	54.14998	9.035137	1.2
-28	118.02	24.60653	192.3023	0.078508	4.695862	59.81369	9.980158	1.4
-28	118.02	24.62389	185.2343	0.082122	4.731467	57.61529	9.613341	1.3
-28	118.02	24.62389	162.8324	0.093714	4.746358	50.6474	8.450721	1.1
-29	118.02	24.60653	153.4883	0.099928	4.770667	47.74101	7.965778	1.1
-29	118.02	24.60653	135.0397	0.113594	4.771263	42.00277	7.008328	0.9
-29	118.02	24.60653	134.3209	0.114822	4.797174	41.77919	6.971023	0.9
-29	118.02	24.60653	136.5971	0.115095	4.890063	42.48715	7.089154	0.9
-30	118.02	24.60653	136.7169	0.118005	5.018108	42.52443	7.095371	0.9
-30	118.02	24.60653	144.3838	0.115228	5.174803	44.90913	7.49327	0.9
-30	118.02	24.60653	153.3685	0.110048	5.249699	47.70376	7.959561	1.0
-31	118.02	24.60653	163.1918	0.104183	5.288224	50.75919	8.469373	1.0
-31	118.02	24.60653	148.3371	0.115918	5.348298	46.13875	7.69844	0.9
-31	118.02	24.60653	123.5393	0.139061	5.343499	38.42566	6.411477	0.8
-31	118.02	24.60653	108.0856	0.159257	5.354061	33.61896	5.609456	0.7
-32	118.02	24.60653	101.4968	0.168518	5.320045	31.56956	5.267509	0.6
-32	118.02	24.58917	103.6531	0.164126	5.291456	32.24028	5.379417	0.7
-32	118.02	24.5718	108.5648	0.15416	5.205678	33.76797	5.634326	0.7
-33	118.02	24.55444	128.2113	0.127851	5.098533	39.87887	6.653945	0.8
-33	118.02	24.53707	142.7067	0.111868	4.965538	44.38747	7.406232	1.0
-33	118.02	24.51971	135.2793	0.114442	4.8154	42.07725	7.020762	0.9
-33	118.02	24.48498	110.1221	0.132988	4.555172	34.2524	5.715147	0.8
-34	118.02	24.46762	75.62085	0.183551	4.317312	23.52111	3.924592	0.6
-34	118.02	24.45025	77.1782	0.174055	4.178273	24.0055	4.005416	0.6
-34	118.02	24.43289	66.03716	0.202918	4.167975	20.5402	3.427215	0.5
-34	118.02	24.39816	72.98534	0.186872	4.242258	22.70136	3.787813	0.6
-35	118.02	24.36343	73.10513	0.190263	4.32632	22.73862	3.79403	0.6
-35	118.02	24.34607	85.20454	0.165096	4.375378	26.50201	4.421969	0.7
-35	118.02	24.31134	102.0958	0.135904	4.315753	31.75587	5.298596	0.8
-36	118.02	24.27661	108.445	0.124291	4.192415	33.73072	5.628109	0.9

-36	118.02	24.24188	104.9709	0.122523	4.000389	32.65016	5.447809	0.9
-36	118.02	24.22452	96.58517	0.127715	3.836792	30.04185	5.012604	0.8
-36	118.02	24.18979	86.88168	0.140326	3.792116	27.02367	4.509009	0.8
-37	118.02	24.15506	90.47557	0.132852	3.738659	28.14151	4.695526	0.8
-37	118.02	24.12033	91.67353	0.131677	3.754665	28.51414	4.757698	0.8
-37	118.02	24.0856	92.3923	0.130579	3.752536	28.73771	4.795001	0.8
-38	118.02	24.05088	93.47047	0.129852	3.775181	29.07306	4.850956	0.8
-38	118.02	24.01615	92.27251	0.131183	3.765016	28.70044	4.788784	0.8
-38	118.02	23.98142	80.05331	0.147698	3.677637	24.89977	4.154629	0.7
-38	118.02	23.94669	67.11533	0.170948	3.568638	20.87555	3.48317	0.6
-39	118.02	23.91196	69.87064	0.159406	3.464308	21.73257	3.626166	0.7
-39	118.02	23.85987	71.0686	0.152873	3.379275	22.10518	3.688338	0.7
-39	118.02	23.82514	72.02697	0.148732	3.332078	22.40327	3.738076	0.7
-39	118.02	23.79041	70.11023	0.150292	3.277429	21.80709	3.6386	0.7
-40	118.02	23.73832	67.59451	0.153137	3.219645	21.02459	3.508039	0.7
-40	118.02	23.68623	66.03716	0.154276	3.168867	20.54021	3.427215	0.7
-40	118.02	23.63413	66.03716	0.15187	3.119439	20.5402	3.427215	0.7
-41	118.02	23.58204	65.91737	0.149243	3.059925	20.50294	3.420998	0.7
-41	118.02	23.52995	68.91227	0.141793	3.039263	21.43448	3.576428	0.8
-41	118.02	23.46049	70.34982	0.13962	3.055104	21.88161	3.651034	0.8
-41	118.02	23.39104	70.46962	0.137738	3.019054	21.91886	3.657252	0.8
-42	118.02	23.30422	69.99043	0.135997	2.960622	21.76982	3.632383	0.8
-42	118.02	23.25212	69.03207	0.134998	2.898634	21.47173	3.582645	0.8
-42	118.02	23.18267	66.15696	0.138042	2.840548	20.57746	3.433432	0.8
-43	118.02	23.13057	63.88083	0.140523	2.792121	19.86949	3.315305	0.8
-43	118.02	23.09584	62.20369	0.142116	2.749631	19.34784	3.228264	0.8
-43	118.02	23.06112	59.92756	0.145774	2.717206	18.63987	3.110137	0.7
-43	118.02	23.02639	57.77123	0.148968	2.676828	17.96917	2.998227	0.7
-44	118.02	23.00902	56.57327	0.149308	2.62731	17.59655	2.936055	0.7
-44	118.02	22.9743	56.21388	0.147916	2.586267	17.48476	2.917403	0.7
-44	118.02	22.95693	56.69307	0.144616	2.550126	17.63381	2.942273	0.7
-45	118.02	22.93957	56.21388	0.143821	2.514678	17.48476	2.917403	0.7
-45	118.02	22.9222	55.8545	0.143212	2.488018	17.37299	2.898752	0.8
-45	118.02	22.88747	53.93776	0.146858	2.463811	16.7768	2.799277	0.7
-45	118.02	22.87011	52.5002	0.150458	2.456926	16.32966	2.72467	0.7
-46	118.02	22.83538	52.26061	0.150191	2.441374	16.25514	2.712236	0.7
-46	118.02	22.81802	51.18245	0.15145	2.411059	15.91979	2.656281	0.7
-46	118.02	22.78329	49.98449	0.152267	2.367325	15.54717	2.594109	0.7
-47	118.02	22.74856	49.14591	0.152322	2.328448	15.28634	2.550588	0.7
-47	118.02	22.71383	49.74489	0.149225	2.308913	15.47265	2.581674	0.7
-47	118.02	22.6791	50.94286	0.144615	2.291464	15.84526	2.643847	0.7
-47	118.02	22.64438	52.26061	0.139711	2.271018	16.25514	2.712236	0.8
-48	118.02	22.62701	52.26061	0.140068	2.276828	16.25514	2.712236	0.8
-48	118.02	22.57492	48.66673	0.152525	2.308811	15.1373	2.525719	0.7
-48	118.02	22.54019	43.15611	0.175531	2.356201	13.42328	2.239728	0.6
-49	118.02	22.52283	40.87998	0.187164	2.379851	12.71531	2.1216	0.6
-49	118.02	22.4881	42.31754	0.181538	2.389478	13.16245	2.196207	0.6
-49	118.02	22.45337	42.67692	0.179743	2.385952	13.27423	2.214859	0.6
-49	118.02	22.436	41.23937	0.183912	2.359057	12.82709	2.140252	0.6
-50	118.02	22.40128	39.92161	0.186538	2.316288	12.41722	2.071863	0.6
-50	118.02	22.34918	42.43733	0.169707	2.240083	13.19971	2.202424	0.6
-50	118.02	22.31446	43.3957	0.159604	2.1543	13.4978	2.252162	0.7
-51	118.02	22.27973	42.19774	0.15843	2.079424	13.12518	2.18999	0.7
-51	118.02	22.26236	39.92161	0.163494	2.030135	12.41722	2.071863	0.7
-51	118.02	22.22763	36.20793	0.178492	2.010192	11.26211	1.879129	0.6
-51	118.02	22.21027	36.80692	0.175756	2.012126	11.44842	1.910216	0.6
-52	118.02	22.17554	35.48915	0.182078	2.00988	11.03855	1.841826	0.6
-52	118.02	22.14081	32.13486	0.200753	2.006574	9.995227	1.667744	0.5
-52	118.02	22.12345	29.73894	0.217449	2.011401	9.250001	1.5434	0.5
-53	118.02	22.10609	28.66078	0.225867	2.013525	8.91465	1.487445	0.5
-53	118.02	22.08872	29.73894	0.214628	1.985307	9.250001	1.5434	0.5
-53	118.02	22.05399	31.77548	0.196968	1.946724	9.883442	1.649093	0.5
-53	118.02	22.01926	32.97344	0.184938	1.896731	10.25606	1.711265	0.6
-54	118.02	21.98454	33.09324	0.180181	1.854665	10.29332	1.717482	0.6
-54	118.02	21.94981	32.13486	0.183067	1.829796	9.995229	1.667744	0.6
-54	118.02	21.91508	30.45772	0.190357	1.80336	9.473569	1.580703	0.6
-55	118.02	21.88035	31.1765	0.183431	1.778753	9.69714	1.618007	0.6
-55	118.02	21.84562	32.25466	0.175748	1.763189	10.03249	1.673961	0.6
-55	118.02	21.81089	32.13486	0.175929	1.75845	9.995228	1.667744	0.6
-55	118.02	21.79353	31.77548	0.177965	1.758909	9.883442	1.649093	0.6
-56	118.02	21.7588	30.81711	0.183284	1.756838	9.585354	1.599355	0.6

-56	118.02	21.72407	29.73894	0.188039	1.739357	9.250001	1.5434	0.6
-56	118.02	21.70671	28.54098	0.193064	1.713908	8.877389	1.481228	0.6
-56	118.02	21.68934	27.10343	0.200978	1.694293	8.430251	1.406621	0.5
-57	118.02	21.65462	25.54608	0.211374	1.67955	7.945853	1.325798	0.5
-57	118.02	21.63725	24.34812	0.221348	1.676318	7.57324	1.263625	0.5
-57	118.02	21.60252	23.95129	0.224763	1.674445	7.449811	1.243031	0.5
-58	118.02	21.58516	24.19089	0.224141	1.686513	7.524334	1.255465	0.5
-58	118.02	21.55043	24.64012	0.222131	1.702423	7.664063	1.27878	0.5
-58	118.02	21.49834	25.08187	0.222445	1.735395	7.801467	1.301706	0.5
-59	118.02	21.44625	24.90218	0.230144	1.7826	7.745572	1.29238	0.5
-59	118.02	21.35942	24.61017	0.243262	1.862111	7.654747	1.277225	0.4
-59	118.02	21.25524	24.28822	0.25676	1.939719	7.55461	1.260517	0.4
-60	118.02	21.16842	23.62185	0.275597	2.024903	7.347342	1.225933	0.4
-60	118.02	21.0816	22.87313	0.299698	2.132187	7.114457	1.187076	0.4
-60	118.02	20.99478	22.55866	0.320773	2.250753	7.016648	1.170756	0.3
-61	118.02	20.94268	22.10943	0.347416	2.389151	6.876918	1.147441	0.3
-61	118.02	20.89059	21.54789	0.378306	2.535503	6.702254	1.118298	0.3
-61	118.02	20.85586	21.10614	0.412566	2.708432	6.564854	1.095372	0.3
-62	118.02	20.80377	20.63444	0.454459	2.91678	6.418137	1.070892	0.2
-62	118.02	20.75168	20.06541	0.51198	3.195342	6.241145	1.04136	0.2
-62	118.02	20.68222	19.6611	0.574643	3.514161	6.115387	1.020377	0.2
-62	118.02	20.61276	19.13699	0.657376	3.912947	5.95237	0.993177	0.2
-63	118.02	20.50858	18.68027	0.74944	4.354482	5.810312	0.969474	0.1
-63	118.02	20.42176	18.26847	0.829677	4.714412	5.682225	0.948102	0.1
-63	118.02	20.33494	17.74436	0.886972	4.895376	5.519203	0.920902	0.1
-64	118.02	20.26548	17.16784	0.927459	4.952521	5.339884	0.890981	0.1
-64	118.02	20.19602	16.66619	0.950453	4.927008	5.183855	0.864947	0.1
-64	118.02	20.12657	15.90249	0.971674	4.806203	4.946311	0.825312	0.1
-64	118.02	20.03975	14.57725	1.024127	4.643499	4.534105	0.756534	0.1
-65	118.02	19.95292	12.7878	1.122652	4.465364	3.977514	0.663665	0.1
-65	118.02	19.84874	11.47004	1.202418	4.289797	3.567642	0.595275	0.1
-65	118.02	19.77928	9.276272	1.439453	4.153242	2.885292	0.481423	0.1
-65	118.02	19.72719	7.771333	1.67744	4.054701	2.417196	0.403319	0.1
-66	118.02	19.65773	8.115747	1.528703	3.858938	2.524322	0.421193	0.1
-66	118.02	19.55355	10.09238	1.122831	3.524716	3.139133	0.523777	0.1
-66	118.02	19.44936	11.17055	0.897213	3.117353	3.474487	0.579732	0.1
-66	118.02	19.34518	11.0208	0.793012	2.718376	3.427911	0.571961	0.1
-67	118.02	19.24099	10.57157	0.719264	2.365069	3.288181	0.548646	0.1
-67	118.02	19.15417	11.03578	0.604212	2.073998	3.432568	0.572738	0.2
-67	118.02	19.06735	11.08819	0.531991	1.834768	3.44887	0.575458	0.2
-68	118.02	18.98053	10.86357	0.487253	1.64643	3.379005	0.563801	0.2
-68	118.02	18.92844	10.17474	0.478414	1.514062	3.164752	0.528051	0.2
-68	118.02	18.87634	9.141501	0.502986	1.430176	2.843373	0.474428	0.2
-68	118.02	18.82425	8.639855	0.500927	1.346163	2.687341	0.448394	0.2
-69	118.02	18.77216	8.550008	0.45949	1.221966	2.659395	0.443731	0.2
-69	118.02	18.73743	8.430212	0.421658	1.105644	2.622133	0.437513	0.3
-69	118.02	18.68534	8.018413	0.403282	1.005804	2.494047	0.416142	0.3
-69	118.02	18.65061	7.801282	0.383114	0.929631	2.426511	0.404873	0.3
-70	118.02	18.61588	7.748871	0.358161	0.863244	2.410209	0.402153	0.3
-70	118.02	18.59852	8.078311	0.320308	0.804831	2.512678	0.41925	0.3
-70	118.02	18.56379	8.302929	0.291744	0.753441	2.582542	0.430908	0.4
-71	118.02	18.52906	8.32539	0.275595	0.713662	2.589529	0.432073	0.4
-71	118.02	18.49433	7.966002	0.276728	0.685663	2.477746	0.413422	0.4
-71	118.02	18.44224	7.801282	0.273611	0.663919	2.426511	0.404873	0.4
-71	118.02	18.40751	7.980977	0.258967	0.642861	2.482403	0.414199	0.4
-72	118.02	18.37278	7.936053	0.250791	0.619061	2.46843	0.411867	0.4
-72	118.02	18.33805	7.606614	0.253075	0.598765	2.365961	0.39477	0.4
-72	118.02	18.30333	7.089993	0.26487	0.584109	2.205271	0.367958	0.4
-72	118.02	18.28596	6.648245	0.275873	0.570469	2.067869	0.345032	0.4
-73	118.02	18.25123	6.625783	0.270779	0.558044	2.060883	0.343867	0.4
-73	118.02	18.23387	6.513474	0.268317	0.543596	2.025951	0.338038	0.4
-73	118.02	18.19914	6.266395	0.270767	0.527753	1.9491	0.325215	0.4
-74	118.02	18.18178	5.944443	0.277956	0.51393	1.84896	0.308506	0.4
-74	118.02	18.16441	5.622491	0.287531	0.502839	1.74882	0.291798	0.4
-74	118.02	18.14705	5.629978	0.279813	0.489994	1.751149	0.292186	0.4
-74	118.02	18.12968	5.907006	0.258468	0.474888	1.837314	0.306563	0.4
-75	118.02	18.11232	6.049264	0.24512	0.461209	1.881564	0.313946	0.4
-75	118.02	18.09496	6.094188	0.237127	0.449482	1.895536	0.316278	0.5
-75	118.02	18.06023	5.966905	0.237335	0.44048	1.855947	0.309672	0.5
-75	118.02	18.04286	5.734799	0.242003	0.431674	1.783752	0.297626	0.4
-76	118.02	18.0255	5.757261	0.23736	0.42505	1.790739	0.298792	0.5

-76	118.02	17.99077	5.877058	0.230243	0.420884	1.828	0.305009	0.5
-76	118.02	17.97341	5.824646	0.230444	0.417495	1.811698	0.302289	0.5
-77	118.02	17.93868	5.667414	0.234806	0.413914	1.762793	0.294129	0.5
-77	118.02	17.92131	5.40536	0.244276	0.410697	1.681283	0.280529	0.4
-77	118.02	17.90395	5.165768	0.251617	0.404288	1.606761	0.268094	0.4
-77	118.02	17.86922	4.948637	0.257536	0.396406	1.539224	0.256826	0.4
-78	118.02	17.85186	4.933663	0.254481	0.390519	1.534567	0.256049	0.4
-78	118.02	17.83449	4.709045	0.26171	0.383327	1.464702	0.244391	0.4
-78	118.02	17.81713	4.589249	0.264449	0.377485	1.42744	0.238174	0.4
-78	118.02	17.79976	4.334682	0.275805	0.371857	1.34826	0.224963	0.4
-79	118.02	17.7824	4.207399	0.279377	0.365612	1.308669	0.218357	0.4
-79	118.02	17.76504	4.274785	0.270001	0.359001	1.329629	0.221854	0.4
-79	118.02	17.74767	4.469453	0.253092	0.351842	1.390179	0.231957	0.4
-79	118.02	17.71294	4.596736	0.24103	0.344617	1.429769	0.238563	0.4
-80	118.02	17.69558	4.574275	0.237639	0.338109	1.422782	0.237397	0.5
-80	118.02	17.67822	4.469453	0.239137	0.332443	1.390179	0.231957	0.4
-80	118.02	17.66085	4.297246	0.2458	0.328541	1.336616	0.22302	0.4
-81	118.02	17.64349	4.357144	0.241724	0.327595	1.355246	0.226128	0.4
-81	118.02	17.62612	4.267297	0.245847	0.326313	1.3273	0.221465	0.4
-81	118.02	17.59139	4.214887	0.249575	0.327192	1.310998	0.218745	0.4
-81	118.02	17.57403	4.020218	0.261602	0.32712	1.250448	0.208642	0.4
-82	118.02	17.5393	3.930371	0.265337	0.324375	1.222503	0.203979	0.4
-82	118.02	17.50457	3.675804	0.279652	0.319732	1.143322	0.190768	0.4
-82	118.02	17.46984	3.593444	0.279664	0.312582	1.117705	0.186494	0.4
-82	118.02	17.45248	3.533546	0.276719	0.304134	1.099074	0.183385	0.4
-83	118.02	17.41775	3.428725	0.27738	0.295818	1.066471	0.177945	0.4
-83	118.02	17.40039	3.256518	0.285305	0.288988	1.012907	0.169008	0.4
-83	118.02	17.38302	3.121747	0.290463	0.282036	0.970988	0.162013	0.4
-83	118.02	17.36566	3.136722	0.280443	0.273613	0.975646	0.16279	0.4
-84	118.02	17.3483	3.099285	0.273091	0.26326	0.964002	0.160848	0.4
-84	118.02	17.31357	3.11426	0.259046	0.250928	0.968659	0.161625	0.4
-84	118.02	17.2962	3.181645	0.242775	0.240255	0.989619	0.165122	0.4
-84	118.02	17.27884	3.159183	0.233678	0.229619	0.982632	0.163956	0.5
-85	118.02	17.24411	3.159183	0.222744	0.218876	0.982632	0.163956	0.5
-85	118.02	17.22675	3.151696	0.260728	0.255592	0.980304	0.163568	0.4
-85	118.02	17.20938	3.076823	0.260052	0.248874	0.957015	0.159682	0.4
-85	118.02	17.19202	3.039387	0.255704	0.241735	0.945371	0.157739	0.4
-86	118.02	17.19202	2.957027	0.25552	0.235016	0.919754	0.153465	0.4
-86	118.02	17.17465	3.009438	0.242995	0.227457	0.936056	0.156185	0.4
-86	118.02	17.15729	3.121747	0.222144	0.215699	0.970988	0.162013	0.5
-87	118.02	17.13993	3.383801	0.188582	0.198482	1.052498	0.175613	0.6
-86	118.02	17.12256	3.368826	0.176195	0.184624	1.04784	0.174836	0.6
-86	118.02	17.08783	3.391288	0.165076	0.174126	1.054826	0.176002	0.7
-86	118.02	17.0531	3.41375	0.157266	0.166987	1.061813	0.177168	0.7
-87	118.02	17.01838	3.41375	0.151729	0.161108	1.061813	0.177168	0.7
-87	118.02	17.00101	3.391288	0.148355	0.156489	1.054826	0.176002	0.7
-87	118.02	16.96628	3.346365	0.146716	0.152709	1.040853	0.173671	0.7
-87	118.02	16.94892	3.308928	0.126886	0.130592	1.029209	0.171728	0.8
-87	118.02	16.93155	3.24903	0.144356	0.145883	1.010578	0.168619	0.7
-87	118.02	16.91419	3.189132	0.160889	0.159594	0.991948	0.16551	0.7
-3	146.85	25.19691	130.0083	0.157905	6.385327	40.43778	28.55511	0.6
-3	146.85	25.17955	118.5079	0.154225	5.684844	36.86069	26.02915	0.7
-3	146.85	25.17955	111.6795	0.144177	5.008254	34.73679	24.52936	0.7
-4	146.85	25.19691	110.2419	0.12837	4.401765	34.28967	24.2136	0.8
-4	146.85	25.19691	108.9242	0.116868	3.959452	33.87978	23.92418	0.9
-4	146.85	25.19691	107.1272	0.107584	3.584806	33.32087	23.52949	1.0
-4	146.85	25.19691	98.14252	0.107956	3.295485	30.52625	21.55609	0.9
-5	146.85	25.19691	93.94965	0.103668	3.029387	29.22209	20.63516	1.0
-5	146.85	25.19691	88.19944	0.102351	2.807857	27.43356	19.37218	1.0
-5	146.85	25.19691	90.11618	0.093254	2.613881	28.02974	19.79318	1.1
-6	146.85	25.19691	89.3974	0.088262	2.45423	27.80616	19.6353	1.2
-6	146.85	25.19691	84.60556	0.089108	2.344946	26.31571	18.58282	1.1
-6	146.85	25.19691	83.5274	0.087253	2.266874	25.98036	18.34601	1.2
-7	146.85	25.19691	85.80352	0.082727	2.207847	26.68833	18.84594	1.2
-7	146.85	25.19691	88.67863	0.077956	2.150239	27.5826	19.47743	1.3
-7	146.85	25.19691	86.52229	0.077703	2.09114	26.9119	19.00381	1.3
-8	146.85	25.19691	78.61575	0.083837	2.050034	24.45265	17.26721	1.2
-8	146.85	25.19691	78.37616	0.082821	2.019027	24.37812	17.21459	1.2
-8	146.85	25.19691	82.92841	0.07762	2.002146	25.79405	18.21445	1.3
-8	146.85	25.19691	82.68882	0.076707	1.972872	25.71953	18.16183	1.3
-9	146.85	25.19691	76.21983	0.0819	1.941635	23.70742	16.74097	1.2

-9	146.85	25.19691	69.03207	0.088955	1.910024	21.47174	15.16225	1.2
-9	146.85	25.19691	67.59451	0.089469	1.881041	21.0246	14.8465	1.1
-10	146.85	25.19691	67.47472	0.088228	1.851665	20.98734	14.82019	1.2
-10	146.85	25.19691	64.47981	0.090938	1.823835	20.0558	14.16239	1.1
-10	146.85	25.19691	60.52654	0.095011	1.78869	18.82618	13.29409	1.1
-11	146.85	25.19691	58.96919	0.095873	1.75848	18.34178	12.95203	1.1
-11	146.85	25.19691	59.68797	0.092071	1.709329	18.56535	13.1099	1.1
-11	146.85	25.19691	60.64634	0.087431	1.649245	18.86344	13.3204	1.2
-11	146.85	25.19691	58.7296	0.086365	1.577643	18.26726	12.89941	1.2
-12	146.85	25.21428	56.93266	0.085953	1.52209	17.70833	12.50473	1.2
-12	146.85	25.19691	55.13572	0.08636	1.481029	17.14942	12.11004	1.2
-12	146.85	25.21428	54.29715	0.08567	1.44685	16.88859	11.92586	1.2
-13	146.85	25.21428	54.41694	0.083413	1.41183	16.92585	11.95217	1.2
-13	146.85	25.21428	54.05755	0.082137	1.381051	16.81406	11.87323	1.2
-13	146.85	25.21428	53.09918	0.08231	1.35943	16.51597	11.66274	1.2
-14	146.85	25.21428	52.14082	0.082362	1.335743	16.21788	11.45224	1.2
-14	146.85	25.21428	52.38041	0.080359	1.30924	16.2924	11.50487	1.3
-14	146.85	25.21428	53.57837	0.076856	1.280815	16.66502	11.76799	1.3
-14	146.85	25.19691	53.93776	0.07545	1.265805	16.7768	11.84692	1.4
-15	146.85	25.19691	55.7347	0.072309	1.253531	17.33572	12.24161	1.4
-15	146.85	25.19691	54.53674	0.07332	1.243741	16.96311	11.97848	1.4
-15	146.85	25.19691	54.17735	0.073404	1.23696	16.85132	11.89955	1.4
-15	146.85	25.21428	53.33878	0.07374	1.223375	16.59049	11.71536	1.4
-15	146.85	25.19691	53.09918	0.074031	1.222687	16.51597	11.66274	1.4
-16	146.85	25.21428	52.26061	0.075361	1.224996	16.25514	11.47855	1.4
-16	146.85	25.21428	51.54184	0.076757	1.230532	16.03157	11.32068	1.3
-16	146.85	25.19691	50.94286	0.077951	1.235151	15.84526	11.18912	1.3
-16	146.85	25.19691	49.6251	0.080128	1.236805	15.43539	10.89969	1.3
-17	146.85	25.21428	47.82816	0.082749	1.231016	14.87647	10.50501	1.2
-17	146.85	25.21428	45.79162	0.085668	1.220165	14.24303	10.0577	1.2
-17	146.85	25.21428	45.43223	0.084904	1.199806	14.13124	9.978764	1.2
-18	146.85	25.21428	43.99468	0.085778	1.173796	13.6841	9.66302	1.2
-18	146.85	25.21428	42.43733	0.086835	1.146202	13.19971	9.320962	1.2
-18	146.85	25.21428	41.11957	0.088177	1.12777	12.78983	9.031529	1.2
-19	146.85	25.21428	39.92161	0.089562	1.112113	12.41722	8.768408	1.1
-19	146.85	25.19691	38.12467	0.092872	1.101309	11.8583	8.373727	1.1
-19	146.85	25.21428	37.64548	0.092721	1.085694	11.70925	8.268477	1.1
-19	146.85	25.21428	36.68712	0.093248	1.064067	11.41116	8.057983	1.1
-20	146.85	25.21428	37.2861	0.088635	1.027947	11.59747	8.189543	1.2
-20	146.85	25.21428	37.52569	0.084704	0.988669	11.67199	8.242167	1.2
-20	146.85	25.21428	38.60386	0.078629	0.944123	12.00734	8.478977	1.3
-21	146.85	25.21428	38.72365	0.075429	0.908506	12.0446	8.505287	1.4
-21	146.85	25.21428	38.96325	0.072703	0.881102	12.11913	8.557913	1.4
-21	146.85	25.21428	38.48406	0.071634	0.857464	11.97008	8.452664	1.4
-22	146.85	25.21428	37.76528	0.071632	0.841425	11.74651	8.29479	1.4
-22	146.85	25.21428	37.2861	0.071796	0.832653	11.59747	8.189543	1.4
-22	146.85	25.21428	36.92671	0.072063	0.827691	11.48568	8.110606	1.4
-23	146.85	25.21428	36.68712	0.072594	0.828386	11.41116	8.057983	1.4
-23	146.85	25.21428	36.44753	0.073184	0.829662	11.33664	8.005359	1.4
-23	146.85	25.21428	35.96834	0.074579	0.834363	11.18759	7.900109	1.4
-23	146.85	25.21428	35.48915	0.075899	0.837813	11.03855	7.79486	1.3
-24	146.85	25.21428	34.89017	0.077217	0.837982	10.85224	7.663299	1.3
-24	146.85	25.21428	34.41099	0.078018	0.835043	10.70319	7.558052	1.3
-24	146.85	25.21428	33.93181	0.078358	0.827006	10.55415	7.452804	1.3
-24	146.85	25.21428	33.45262	0.078383	0.815583	10.40511	7.347555	1.3
-25	146.85	25.21428	32.73384	0.079052	0.804876	10.18153	7.189682	1.3
-25	146.85	25.21428	32.01507	0.079808	0.794727	9.957965	7.03181	1.3
-25	146.85	25.21428	30.69731	0.081906	0.782042	9.54809	6.742377	1.2
-26	146.85	25.21428	29.49935	0.083908	0.769894	9.17548	6.479256	1.2
-26	146.85	25.21428	27.942	0.087189	0.757764	8.691079	6.137199	1.2
-26	146.85	25.21428	26.62424	0.090463	0.749144	8.281206	5.847765	1.1
-27	146.85	25.21428	26.62424	0.089532	0.741435	8.281205	5.847765	1.1
-27	146.85	25.21428	26.74404	0.088363	0.735043	8.318467	5.874078	1.2
-27	146.85	25.21428	27.70241	0.085219	0.734296	8.616558	6.084575	1.2
-28	146.85	25.23164	28.78057	0.082613	0.739543	8.951913	6.321383	1.2
-28	146.85	25.21428	28.78057	0.083531	0.747761	8.951912	6.321383	1.2
-28	146.85	25.21428	28.30139	0.085884	0.756022	8.802864	6.216135	1.2
-28	146.85	25.21428	28.0618	0.087996	0.768063	8.728343	6.163512	1.2
-29	146.85	25.21428	27.70241	0.090921	0.783429	8.616555	6.084575	1.1
-29	146.85	25.19691	27.46282	0.093998	0.802933	8.542037	6.031951	1.1
-29	146.85	25.19691	27.22322	0.097804	0.82816	8.467513	5.979325	1.0

-29	146.85	25.19691	26.98363	0.101739	0.853895	8.392992	5.926702	1.0
-29	146.85	25.17955	26.74404	0.105513	0.877703	8.318467	5.874078	1.0
-30	146.85	25.16218	26.38465	0.1092	0.89617	8.206683	5.795141	0.9
-30	146.85	25.12746	26.02526	0.112445	0.91023	8.094898	5.716205	0.9
-30	146.85	25.07536	25.54608	0.115995	0.921675	7.945855	5.610957	0.9
-30	146.85	24.98854	25.0669	0.119559	0.932174	7.796805	5.50571	0.9
-31	146.85	24.86699	24.58771	0.122885	0.939794	7.647761	5.40046	0.8
-31	146.85	24.76281	23.95129	0.127055	0.946534	7.449813	5.260677	0.8
-31	146.85	24.58917	23.53201	0.129788	0.949972	7.319399	5.168586	0.8
-32	146.85	24.39816	22.82072	0.134105	0.951897	7.09816	5.012358	0.8
-32	146.85	24.18979	22.06451	0.139045	0.954256	6.862941	4.846263	0.7
-32	146.85	24.01615	21.5404	0.142066	0.951835	6.699928	4.731147	0.7
-33	146.85	23.82514	21.1885	0.143732	0.947262	6.590469	4.653856	0.7
-33	146.85	23.63413	20.57454	0.146959	0.940461	6.399503	4.519005	0.7
-33	146.85	23.44313	20.1852	0.148291	0.931034	6.278408	4.43349	0.7
-34	146.85	23.26949	19.6611	0.150302	0.919153	6.115385	4.318377	0.7
-34	146.85	23.11321	19.30171	0.150734	0.904946	6.003601	4.23944	0.7
-34	146.85	22.95693	18.77011	0.151866	0.886634	5.838256	4.122679	0.7
-35	146.85	22.80065	18.47811	0.149919	0.861648	5.747434	4.058544	0.7
-35	146.85	22.66174	17.99893	0.148712	0.832545	5.598385	3.953297	0.7
-35	146.85	22.54019	17.35502	0.148174	0.799858	5.398106	3.811868	0.7
-36	146.85	22.45337	16.68117	0.147746	0.766584	5.188513	3.663863	0.7
-36	146.85	22.41864	15.93993	0.14869	0.737197	4.957958	3.501056	0.7
-36	146.85	22.40128	15.27356	0.150163	0.71338	4.75069	3.354695	0.7
-37	146.85	22.38391	14.8393	0.150513	0.694708	4.615615	3.259313	0.7
-37	146.85	22.36655	14.28525	0.152281	0.676626	4.443285	3.137621	0.7
-37	146.85	22.36655	13.57396	0.157477	0.664876	4.222044	2.981393	0.6
-38	146.85	22.34918	12.90759	0.164081	0.65875	4.014777	2.835031	0.6
-38	146.85	22.34918	12.39097	0.169793	0.654397	3.854088	2.721561	0.6
-38	146.85	22.34918	12.06902	0.173021	0.649512	3.753949	2.650847	0.6
-38	146.85	22.34918	11.64973	0.1774	0.642813	3.623532	2.558754	0.6
-39	146.85	22.34918	11.60481	0.17624	0.636147	3.609558	2.548888	0.6
-39	146.85	22.34918	11.44009	0.176323	0.627414	3.558325	2.512709	0.6
-39	146.85	22.33182	11.17055	0.177648	0.617235	3.474487	2.453507	0.6
-40	146.85	22.31446	10.70634	0.182167	0.606635	3.3301	2.351547	0.6
-40	146.85	22.29709	10.51916	0.181386	0.593471	3.271878	2.310435	0.6
-40	146.85	22.29709	10.03997	0.186797	0.583334	3.122833	2.205185	0.5
-41	146.85	22.29709	9.905201	0.186085	0.573312	3.080912	2.175585	0.6
-41	146.85	22.29709	10.04746	0.179601	0.561283	3.125161	2.206831	0.6
-41	146.85	22.29709	10.16726	0.173779	0.549561	3.162423	2.233143	0.6
-42	146.85	22.27973	10.39936	0.166538	0.538685	3.234617	2.284122	0.6
-42	146.85	22.26236	10.025	0.169735	0.529262	3.118173	2.201897	0.6
-42	146.85	22.26236	9.658122	0.174261	0.523492	3.004063	2.121316	0.6
-42	146.85	22.245	9.411042	0.177546	0.519715	2.927212	2.067047	0.6
-43	146.85	22.245	8.894422	0.187156	0.517772	2.766521	1.953577	0.5
-43	146.85	22.22763	8.70724	0.1904	0.515659	2.708299	1.912464	0.5
-43	146.85	22.19291	8.579957	0.192836	0.514622	2.668709	1.884507	0.5
-44	146.85	22.17554	8.362826	0.197873	0.514701	2.601173	1.836816	0.5
-44	146.85	22.15818	8.235543	0.200028	0.512388	2.561583	1.80886	0.5
-44	146.85	22.14081	8.138208	0.199987	0.506228	2.531308	1.787481	0.5
-44	146.85	22.10609	8.048362	0.197601	0.494667	2.503362	1.767747	0.5
-45	146.85	22.08872	7.995951	0.193703	0.481751	2.487062	1.756236	0.5
-45	146.85	22.05399	7.86118	0.191907	0.469241	2.445141	1.726635	0.5
-45	146.85	22.03663	8.078311	0.181122	0.4551	2.512677	1.774325	0.6
-46	146.85	22.0019	8.138208	0.17428	0.441156	2.531309	1.787481	0.6
-46	146.85	21.96717	8.287954	0.166317	0.428745	2.577886	1.820372	0.6
-46	146.85	21.93244	8.302929	0.161633	0.417425	2.582543	1.823661	0.6
-47	146.85	21.89771	8.055849	0.16286	0.408077	2.505691	1.769392	0.6
-47	146.85	21.86299	7.831231	0.164938	0.401761	2.435827	1.720057	0.6
-47	146.85	21.82826	7.778821	0.164694	0.398482	2.419525	1.708545	0.6
-48	146.85	21.79353	7.614101	0.166792	0.395012	2.36829	1.672366	0.6
-48	146.85	21.7588	7.254713	0.174352	0.393427	2.256506	1.59343	0.6
-48	146.85	21.72407	7.194815	0.174904	0.391414	2.237875	1.580274	0.6
-49	146.85	21.68934	6.970197	0.178862	0.387774	2.168011	1.530939	0.6
-49	146.85	21.65462	6.812964	0.18112	0.383812	2.119105	1.496404	0.6
-49	146.85	21.63725	6.618296	0.184698	0.38021	2.058555	1.453647	0.6
-50	146.85	21.60252	6.243933	0.194164	0.377088	1.942113	1.371421	0.5
-50	146.85	21.56779	6.011828	0.201135	0.376107	1.869919	1.320442	0.5
-50	146.85	21.55043	5.794698	0.209072	0.376828	1.802383	1.272751	0.5
-50	146.85	21.53307	5.360437	0.225691	0.376296	1.667311	1.17737	0.5
-51	146.85	21.49834	5.263103	0.229065	0.374987	1.637036	1.155991	0.4

-51	146.85	21.46361	5.128332	0.233452	0.372383	1.595116	1.12639	0.4
-51	146.85	21.42888	5.060946	0.232901	0.366623	1.574157	1.111589	0.4
-52	146.85	21.41152	5.060946	0.227606	0.358288	1.574157	1.111589	0.4
-52	146.85	21.37679	5.02351	0.223736	0.349589	1.562512	1.103367	0.5
-52	146.85	21.34206	4.873765	0.223606	0.338972	1.515936	1.070477	0.5
-53	146.85	21.30733	4.836329	0.218578	0.328805	1.504291	1.062254	0.5
-53	146.85	21.23787	4.768943	0.216045	0.320467	1.483332	1.047454	0.5
-53	146.85	21.18578	4.574275	0.219131	0.311776	1.422782	1.004697	0.5
-54	146.85	21.11633	4.626686	0.211122	0.303822	1.439084	1.016208	0.5
-54	146.85	21.04687	4.581762	0.207701	0.295996	1.425111	1.006341	0.5
-54	146.85	20.99478	4.514377	0.205081	0.287965	1.404152	0.991541	0.5
-54	146.85	20.94268	4.432017	0.203457	0.280472	1.378534	0.973451	0.5
-55	146.85	20.89059	4.327195	0.203834	0.274347	1.345931	0.950428	0.5
-55	146.85	20.82113	4.012731	0.216311	0.269982	1.24812	0.881359	0.5
-55	146.85	20.75168	3.870473	0.221732	0.266936	1.203872	0.850113	0.5
-56	146.85	20.66486	3.7956	0.225567	0.266301	1.180584	0.833668	0.5
-56	146.85	20.5954	3.623393	0.234536	0.264327	1.12702	0.795844	0.4
-56	146.85	20.54331	3.683291	0.228578	0.26187	1.145651	0.809	0.4
-56	146.85	20.47385	3.615906	0.228618	0.257124	1.124691	0.7942	0.4
-57	146.85	20.42176	3.57847	0.225093	0.250539	1.113047	0.785977	0.5
-57	146.85	20.38703	3.563495	0.219453	0.243239	1.10839	0.782688	0.5
-57	146.85	20.33494	3.518572	0.215653	0.236015	1.094416	0.772821	0.5
-58	146.85	20.28284	3.353852	0.219544	0.229024	1.043182	0.736642	0.5
-58	146.85	20.23075	3.316416	0.216718	0.223552	1.031538	0.72842	0.5
-58	146.85	20.19602	3.316416	0.212312	0.219008	1.031538	0.72842	0.5
-59	146.85	20.12657	3.099285	0.222854	0.214832	0.964002	0.680729	0.5
-59	146.85	20.07447	3.084311	0.221217	0.212223	0.959344	0.67744	0.5
-59	146.85	20.03975	3.039387	0.221753	0.209639	0.945371	0.667573	0.5
-60	146.85	20.00502	3.024413	0.219346	0.206342	0.940713	0.664284	0.5
-60	146.85	19.97029	2.972002	0.218894	0.202348	0.924411	0.652772	0.5
-60	146.85	19.93556	2.94954	0.215301	0.197522	0.917425	0.647839	0.5
-61	146.85	19.9182	2.919591	0.21222	0.192719	0.90811	0.641261	0.5
-61	146.85	19.88347	2.844718	0.2132	0.188644	0.884821	0.624816	0.5
-61	146.85	19.84874	2.852206	0.207483	0.184069	0.88715	0.62646	0.5
-62	146.85	19.81401	2.784821	0.206156	0.17857	0.86619	0.61166	0.5
-62	146.85	19.79665	2.717435	0.207273	0.175194	0.845231	0.596859	0.5
-62	146.85	19.76192	2.582664	0.212603	0.170786	0.803312	0.567258	0.5
-62	146.85	19.72719	2.552716	0.209289	0.166174	0.793997	0.56068	0.5
-63	146.85	19.69246	2.552716	0.203134	0.161288	0.793997	0.56068	0.5
-63	146.85	19.65773	2.530254	0.198537	0.156251	0.78701	0.555747	0.5
-63	146.85	19.623	2.477843	0.195913	0.150992	0.770708	0.544235	0.5
-63	146.85	19.57091	2.410458	0.194956	0.146168	0.749749	0.529435	0.5
-64	146.85	19.53618	2.395483	0.190953	0.142278	0.745091	0.526145	0.5
-64	146.85	19.48409	2.35056	0.189573	0.1386	0.731118	0.516279	0.5
-64	146.85	19.44936	2.298149	0.188146	0.13449	0.714816	0.504767	0.5
-65	146.85	19.39727	2.200814	0.190044	0.130093	0.684541	0.483388	0.5
-65	146.85	19.36254	2.125942	0.191892	0.126889	0.661253	0.466943	0.5
-65	146.85	19.32781	2.140916	0.185747	0.123691	0.665911	0.470232	0.6
-65	146.85	19.29309	2.178353	0.177598	0.120332	0.677555	0.478455	0.6
-66	146.85	19.25836	2.155891	0.173318	0.116221	0.670568	0.473521	0.6
-66	146.85	19.24099	2.125942	0.17013	0.112499	0.661253	0.466943	0.6
-66	146.85	19.1889	2.028608	0.172512	0.108851	0.630978	0.445565	0.6
-67	146.85	19.15417	1.923786	0.174719	0.104547	0.598374	0.422542	0.6
-67	146.85	19.11944	1.931273	0.168072	0.100961	0.600703	0.424186	0.6
-67	146.85	19.10208	1.961222	0.159223	0.097129	0.610019	0.430764	0.6
-67	146.85	19.08471	1.938761	0.155707	0.093896	0.603032	0.425831	0.7
-68	146.85	19.04999	1.848913	0.1583	0.091036	0.575086	0.406096	0.6
-68	146.85	19.01526	1.796503	0.157719	0.088131	0.558784	0.394585	0.6
-68	146.85	18.98053	1.826452	0.148039	0.084101	0.568099	0.401163	0.7
-68	146.85	18.9458	1.833939	0.142844	0.081482	0.570429	0.402808	0.7
-69	146.85	18.91107	1.699168	0.14955	0.079038	0.528509	0.373206	0.7
-69	146.85	18.87634	1.744092	0.140725	0.076341	0.542482	0.383073	0.7
-69	146.85	18.84162	1.736605	0.137237	0.074129	0.540153	0.381429	0.7
-70	146.85	18.80689	1.586859	0.144021	0.071085	0.493577	0.348539	0.7
-70	146.85	18.77216	1.676707	0.131153	0.068399	0.521523	0.368273	0.8
-70	146.85	18.7548	1.676707	0.125765	0.065589	0.521523	0.368273	0.8
-70	146.85	18.72007	1.541936	0.132412	0.063505	0.479604	0.338672	0.8
-71	146.85	18.68534	1.616808	0.12182	0.061262	0.502892	0.355117	0.8
-71	146.85	18.65061	1.616808	0.117767	0.059224	0.502892	0.355117	0.9
-71	146.85	18.61588	1.474551	0.124929	0.057298	0.458644	0.323871	0.8
-71	146.85	18.58115	1.549423	0.117077	0.056423	0.481933	0.340316	0.9

-72	146.85	18.52906	1.549423	0.114417	0.055141	0.481933	0.340316	0.9
-72	146.85	18.49433	1.414653	0.121359	0.0534	0.440014	0.310715	0.8
-72	146.85	18.4596	1.467063	0.116667	0.053237	0.456315	0.322227	0.9
-73	146.85	18.42488	1.482038	0.113684	0.052405	0.460973	0.325516	0.9
-73	146.85	18.39015	1.399678	0.11822	0.051468	0.435356	0.307426	0.9
-73	146.85	18.33805	1.429627	0.115443	0.051334	0.444671	0.314004	0.9
-73	146.85	18.30333	1.392191	0.115699	0.050101	0.433027	0.305782	0.9
-74	146.85	18.2686	1.377216	0.114486	0.049042	0.428369	0.302493	0.9
-74	146.85	18.21651	1.392191	0.11354	0.049166	0.433027	0.305782	0.9
-74	146.85	18.18178	1.302344	0.119841	0.048545	0.405081	0.286048	0.9
-74	146.85	18.16441	1.33978	0.114647	0.047776	0.416725	0.29427	0.9
-75	146.85	18.12968	1.324805	0.115988	0.047795	0.412068	0.290981	0.9
-75	146.85	18.11232	1.212497	0.124405	0.046917	0.377135	0.266314	0.8
-75	146.85	18.07759	1.264907	0.116376	0.045787	0.393437	0.277825	0.9
-76	146.85	18.04286	1.25742	0.116498	0.045563	0.391108	0.276181	0.9
-76	146.85	18.0255	1.137624	0.127431	0.045091	0.353847	0.249868	0.8
-76	146.85	18.00813	1.197522	0.119038	0.044339	0.372477	0.263024	0.9
-76	146.85	17.99077	1.219984	0.115619	0.043873	0.379464	0.267958	0.9
-77	146.85	17.97341	1.115162	0.122426	0.042465	0.34686	0.244935	0.8
-77	146.85	17.95604	1.190035	0.113477	0.042003	0.370148	0.26138	0.9
-77	146.85	17.92131	1.190035	0.110887	0.041045	0.370148	0.26138	0.9
-78	146.85	17.90395	1.085213	0.116298	0.039256	0.337545	0.238357	0.9
-78	146.85	17.86922	1.137624	0.109099	0.038604	0.353847	0.249868	0.9
-78	146.85	17.85186	1.152599	0.104155	0.03734	0.358504	0.253158	1.0
-78	146.85	17.83449	1.062752	0.110037	0.036374	0.330558	0.233424	0.9
-79	146.85	17.81713	1.070239	0.108554	0.036136	0.332887	0.235068	0.9
-79	146.85	17.7824	1.047777	0.108222	0.03527	0.3259	0.230134	0.9
-79	146.85	17.76504	1.047777	0.105258	0.034304	0.325901	0.230134	1.0
-79	146.85	17.73031	1.055264	0.104728	0.034375	0.328229	0.231779	1.0
-80	146.85	17.71294	0.95793	0.112134	0.033411	0.297954	0.2104	0.9
-80	146.85	17.69558	1.017828	0.102305	0.032388	0.316585	0.223556	1.0
-80	146.85	17.67822	1.017828	0.10104	0.031988	0.316585	0.223556	1.0
-81	146.85	17.64349	0.898032	0.112475	0.031417	0.279324	0.197244	0.9
-81	146.85	17.62612	0.980392	0.100714	0.030712	0.304941	0.215334	1.0
-81	146.85	17.60876	0.980392	0.09807	0.029906	0.304941	0.215334	1.0
-81	146.85	17.59139	0.868083	0.102507	0.027678	0.270009	0.190666	1.0
-82	146.85	17.55667	0.942955	0.091704	0.026896	0.293297	0.207111	1.1
-82	146.85	17.55667	0.942955	0.087509	0.025666	0.293297	0.207111	1.2
-82	146.85	17.5393	0.830647	0.096486	0.024928	0.258364	0.182444	1.1
-83	146.85	17.52194	0.905519	0.103852	0.02925	0.281653	0.198889	1.0
-83	146.85	17.50457	0.905519	0.10087	0.02841	0.281653	0.198889	1.0
-83	146.85	17.48721	0.800698	0.114075	0.02841	0.249049	0.175866	0.9
-83	146.85	17.46984	0.87557	0.099694	0.02715	0.272337	0.192311	1.0
-84	146.85	17.45248	0.87557	0.09661	0.026311	0.272337	0.192311	1.1
-84	146.85	17.43512	0.853108	0.097571	0.025891	0.265351	0.187377	1.0
-84	146.85	17.41775	1.205009	0.066837	0.025051	0.374806	0.264669	1.5
-84	146.85	17.40039	0.987879	0.077427	0.023791	0.30727	0.216978	1.3
-84	146.85	17.36566	1.032802	0.070138	0.022531	0.321243	0.226845	1.5
-84	146.85	17.3483	0.95793	0.072801	0.021691	0.297955	0.2104	1.4
-84	146.85	17.31357	1.025315	0.066699	0.021271	0.318914	0.225201	1.5
-84	146.85	17.2962	0.935468	0.070219	0.020432	0.290968	0.205467	1.5
-84	146.85	17.27884	1.002853	0.065501	0.020432	0.311928	0.220267	1.6
-84	146.85	17.26147	0.920494	0.060878	0.01743	0.28631	0.202178	1.7
-84	146.85	17.24411	0.987879	0.060129	0.018476	0.30727	0.216978	1.7
-84	146.85	17.22675	0.942955	0.064357	0.018876	0.293297	0.207111	1.6
-84	146.85	17.20938	1.010341	0.061926	0.019461	0.314256	0.221912	1.7
-84	146.85	17.20938	0.995366	0.063163	0.019555	0.309599	0.218623	1.6
-84	146.85	17.19202	1.032802	0.063438	0.020379	0.321243	0.226845	1.6
-84	146.85	17.17465	1.04029	0.062786	0.020316	0.323572	0.22849	1.6
-84	146.85	17.17465	1.032802	0.064478	0.020713	0.321243	0.226845	1.6
-84	146.85	17.17465	1.04029	0.063365	0.020503	0.323572	0.22849	1.6
-84	146.85	17.15729	1.055264	0.065885	0.021625	0.328229	0.231779	1.6
-84	146.85	17.15729	0.980392	0.068277	0.020821	0.304941	0.215334	1.5
-83	146.85	17.15729	1.085213	0.062594	0.021128	0.337545	0.238357	1.6
-83	146.85	17.15729	1.047777	0.059495	0.019389	0.325901	0.230134	1.7
-83	146.85	17.13993	1.0927	0.057441	0.019523	0.339874	0.240001	1.8
-84	146.85	17.13993	1.062752	0.06435	0.021271	0.330558	0.233424	1.6
-84	146.85	17.13993	1.0927	0.062586	0.021271	0.339874	0.240001	1.6
-84	146.85	17.13993	1.047777	0.063981	0.020851	0.325901	0.230134	1.6
-84	146.85	17.13993	1.0927	0.061351	0.020851	0.339874	0.240001	1.7
-84	146.85	17.13993	1.025315	0.054844	0.01749	0.318914	0.225201	1.9

-84	146.85	17.12256	1.085213	0.052716	0.017794	0.337545	0.238357	1.9
-84	146.85	17.12256	1.017828	0.056458	0.017874	0.316585	0.223556	1.8
-84	146.85	17.12256	1.077726	0.053196	0.017832	0.335216	0.236712	1.9
-83	146.85	17.13993	0.995366	0.058417	0.018086	0.309599	0.218623	1.8
-83	146.85	17.12256	1.062752	0.055761	0.018432	0.330558	0.233424	1.8
-83	146.85	17.13993	0.995366	0.060289	0.018665	0.309599	0.218623	1.7
-83	146.85	17.13993	1.077726	0.055818	0.018711	0.335216	0.236712	1.8
-83	146.85	17.13993	1.047777	0.05807	0.018925	0.325901	0.230134	1.8
-83	146.85	17.13993	1.077726	0.057856	0.019394	0.335216	0.236712	1.8
-83	146.85	17.13993	1.085213	0.057405	0.019377	0.337545	0.238357	1.8
-83	146.85	17.13993	1.085213	0.059729	0.020161	0.337545	0.238357	1.7
-83	146.85	17.13993	1.107675	0.056936	0.019616	0.344531	0.24329	1.8
-83	146.85	17.15729	1.062752	0.062278	0.020587	0.330558	0.233424	1.6
-83	146.85	17.15729	1.115162	0.057706	0.020016	0.34686	0.244935	1.8
-83	146.85	17.15729	1.062752	0.061814	0.020433	0.330558	0.233424	1.7

7.2.5 Junho

Prof	Long	Temp	PAR (uE/(m2.sec))	Chl-a (mg / m3)	Prod (mgC/m3/h	Efic(mgC/mg Clor-a/h)	% LUZ	ClorS:ClorF
-4	0	20.40439	25.42628	1.016855	8.041896	7.908597	24.44136	0.7
-4	0	20.40439	22.88062	0.925234	6.584695	7.116786	21.99431	0.8
-4	0	20.40439	21.14357	0.837106	5.505227	6.576497	20.32454	0.8
-5	0	20.40439	19.55627	0.763805	4.646061	6.082785	18.79873	0.9
-5	0	20.40439	18.23103	0.696892	3.95178	5.67058	17.52482	1.0
-5	0	20.40439	16.98066	0.641488	3.388125	5.281665	16.32289	1.1
-6	0	20.40439	15.74526	0.597552	2.926456	4.897406	15.13534	1.2
-6	0	20.40439	14.61469	0.561073	2.550498	4.545753	14.04857	1.2
-6	0	20.40439	13.65632	0.52827	2.24391	4.247661	13.12732	1.3
-7	0	20.38703	12.80277	0.502689	2.001796	3.982173	12.30684	1.4
-7	0	20.36967	12.1364	0.478431	1.806032	3.774908	11.66628	1.5
-7	0	20.3523	11.47004	0.464445	1.656974	3.56764	11.02573	1.5
-8	0	20.3523	10.77372	0.44628	1.495509	3.351058	10.35638	1.6
-8	0	20.33494	9.957612	0.442449	1.370359	3.097216	9.571889	1.6
-9	0	20.31757	9.25381	0.435026	1.252139	2.878306	8.89535	1.6
-9	0	20.30021	8.475136	0.434208	1.144618	2.636106	8.146839	1.6
-9	0	20.30021	7.898617	0.426041	1.046692	2.456786	7.592652	1.6
-10	0	20.28284	7.232251	0.424753	0.95549	2.249519	6.952099	1.6
-10	0	20.26548	6.588347	0.425322	0.871587	2.049239	6.333138	1.6
-10	0	20.26548	6.11665	0.419309	0.797745	1.902523	5.879712	1.7
-10	0	20.26548	5.622491	0.420441	0.735276	1.74882	5.404695	1.7
-11	0	20.24812	5.090896	0.432716	0.685194	1.583472	4.893693	1.6
-11	0	20.24812	4.686584	0.442096	0.64445	1.457715	4.505042	1.6
-11	0	20.24812	4.387094	0.450781	0.615118	1.364562	4.217153	1.5
-11	0	20.24812	4.461966	0.41546	0.576596	1.38785	4.289125	1.7
-12	0	20.24812	4.357144	0.38633	0.523572	1.355246	4.188364	1.8
-12	0	20.24812	4.199912	0.366336	0.478559	1.306341	4.037222	1.9
-12	0	20.24812	3.862985	0.368813	0.443145	1.201543	3.713347	1.9
-13	0	20.24812	3.653342	0.368575	0.418825	1.136335	3.511824	1.9
-13	0	20.24812	3.316416	0.389484	0.401767	1.031538	3.18795	1.8
-13	0	20.24812	3.144209	0.401227	0.392389	0.977975	3.022413	1.7
-13	0	20.24812	2.829744	0.443143	0.390038	0.880164	2.72013	1.6
-13	0	20.24812	2.665024	0.465005	0.385456	0.828929	2.56179	1.5
-14	0	20.24812	2.590152	0.456943	0.368132	0.805641	2.489819	1.5
-14	0	20.24812	2.612614	0.416089	0.338126	0.812627	2.511411	1.7
-14	0	20.24812	2.492817	0.390914	0.303102	0.775366	2.396254	1.8
-15	0	20.24812	2.283174	0.385847	0.274012	0.710159	2.194732	1.8
-15	0	20.24812	2.118455	0.381835	0.251601	0.658924	2.036394	1.8
-15	0	20.24812	1.938761	0.391135	0.235867	0.603032	1.86366	1.8
-15	0	20.24812	1.826452	0.391764	0.222561	0.5681	1.755702	1.8
-16	0	20.24812	1.751579	0.387373	0.211045	0.544811	1.683729	1.8
-16	0	20.24812	1.63927	0.390024	0.198865	0.509879	1.57577	1.8
-16	0	20.24812	1.624296	0.366454	0.18514	0.505221	1.561376	1.9
-16	0	20.24812	1.534449	0.357916	0.170824	0.477275	1.47501	1.9
-17	0	20.24812	1.414653	0.358248	0.157634	0.440014	1.359854	1.9
-17	0	20.24812	1.302344	0.362966	0.147031	0.405081	1.251896	1.9

-17	0	20.24812	1.182548	0.379323	0.139522	0.36782	1.13674	1.8
-18	0	20.24812	1.025315	0.426174	0.135913	0.318914	0.985598	1.6
-18	0	20.24812	0.883057	0.491083	0.134884	0.274666	0.848851	1.4
-18	0	20.24812	0.808185	0.553233	0.13907	0.251378	0.776878	1.3
-18	0	20.23075	0.763261	0.572348	0.135878	0.237405	0.733695	1.2
-19	0	20.23075	0.733312	0.578555	0.131962	0.228089	0.704906	1.2
-19	0	20.23075	0.725825	0.550346	0.124246	0.225761	0.697709	1.3
-3	3.23	20.42176	137.0762	0.413793	17.64257	42.63619	41.08329	0.8
-3	3.23	20.43912	121.5028	0.420055	15.8748	37.79223	36.41576	0.8
-3	3.23	20.43912	120.784	0.382761	14.3798	37.56865	36.20033	0.8
-4	3.23	20.43912	115.0338	0.367268	13.14087	35.78011	34.47693	0.9
-4	3.23	20.43912	105.4501	0.366855	12.03256	32.7992	31.60459	0.9
-4	3.23	20.43912	101.8562	0.350968	11.11914	31.68135	30.52745	0.9
-5	3.23	20.43912	100.0593	0.330632	10.29007	31.12244	29.9889	1.0
-5	3.23	20.43912	96.58517	0.316591	9.510972	30.04185	28.94767	1.0
-5	3.23	20.42176	91.79333	0.308736	8.814856	28.5514	27.5115	1.0
-6	3.23	20.40439	88.31924	0.300012	8.241571	27.47081	26.47027	1.1
-6	3.23	20.40439	85.68372	0.291682	7.773628	26.65107	25.68038	1.1
-6	3.23	20.38703	82.68882	0.28889	7.430119	25.71954	24.78277	1.1
-7	3.23	20.38703	78.97514	0.289799	7.118738	24.56443	23.66974	1.1
-7	3.23	20.36967	77.298	0.284747	6.846103	24.04276	23.16708	1.1
-7	3.23	20.36967	76.10004	0.280186	6.632047	23.67016	22.80804	1.1
-8	3.23	20.3523	75.38126	0.275501	6.459562	23.44659	22.59262	1.1
-8	3.23	20.3523	74.30309	0.272	6.286252	23.11124	22.26948	1.2
-8	3.23	20.3523	72.26656	0.273889	6.156423	22.4778	21.6591	1.2
-9	3.23	20.3523	70.82901	0.273983	6.036025	22.03066	21.22825	1.2
-9	3.23	20.33494	69.15186	0.275971	5.935861	21.509	20.72559	1.1
-9	3.23	20.33494	67.35492	0.278157	5.827399	20.95007	20.18703	1.1
-9	3.23	20.33494	65.55798	0.280066	5.710876	20.39115	19.64847	1.1
-10	3.23	20.33494	63.04226	0.285934	5.606781	19.60867	18.89448	1.1
-10	3.23	20.33494	61.7245	0.285864	5.488245	19.19879	18.49953	1.1
-10	3.23	20.33494	58.01082	0.297482	5.367673	18.04369	17.3865	1.1
-11	3.23	20.33494	54.77633	0.308131	5.24982	17.03763	16.41709	1.0
-11	3.23	20.31757	52.97939	0.310167	5.111152	16.47871	15.87852	1.0
-11	3.23	20.31757	49.74489	0.321357	4.972247	15.47265	14.90911	1.0
-12	3.23	20.31757	49.26571	0.313626	4.805875	15.3236	14.76549	1.0
-12	3.23	20.31757	47.34897	0.315527	4.646899	14.72742	14.19102	1.0
-12	3.23	20.31757	45.79162	0.314888	4.484959	14.24303	13.72427	1.0
-13	3.23	20.31757	44.35407	0.315788	4.356577	13.79589	13.29342	1.0
-13	3.23	20.31757	42.91652	0.31888	4.256651	13.34875	12.86257	1.0
-13	3.23	20.31757	41.59876	0.321318	4.157495	12.93888	12.46762	1.0
-13	3.23	20.31757	40.4008	0.322897	4.05761	12.56627	12.10858	1.0
-14	3.23	20.31757	39.20284	0.325179	3.965115	12.19365	11.74953	1.0
-14	3.23	20.31757	38.00488	0.326982	3.865261	11.82104	11.39049	1.0
-14	3.23	20.31757	36.68712	0.331206	3.77945	11.41116	10.99554	1.0
-15	3.23	20.31757	34.89017	0.34222	3.713856	10.85224	10.45698	0.9
-15	3.23	20.31757	33.21303	0.355668	3.674262	10.33058	9.954321	0.9
-15	3.23	20.31757	31.41609	0.374743	3.661858	9.77166	9.415757	0.8
-15	3.23	20.31757	28.78057	0.410533	3.67505	8.951911	8.625862	0.8
-16	3.23	20.31757	26.50445	0.449405	3.704866	8.243945	7.943683	0.7
-16	3.23	20.31757	25.18669	0.473667	3.710743	7.834069	7.548736	0.7
-16	3.23	20.31757	24.58771	0.480763	3.676759	7.647762	7.369215	0.7
-16	3.23	20.31757	24.34812	0.470533	3.56346	7.57324	7.297407	0.7
-17	3.23	20.31757	24.05612	0.444744	3.327761	7.482414	7.209891	0.7
-17	3.23	20.31757	22.97046	0.432796	3.092208	7.144733	6.884506	0.7
-17	3.23	20.31757	21.80994	0.422557	2.866528	6.783764	6.536686	0.7
-18	3.23	20.31757	21.0088	0.408056	2.666476	6.534578	6.296575	0.8
-18	3.23	20.31757	20.47721	0.391763	2.495229	6.369231	6.137251	0.8
-18	3.23	20.31757	20.09536	0.37527	2.345612	6.250461	6.022807	0.8
-19	3.23	20.30021	19.40653	0.370974	2.239277	6.036207	5.816356	0.9
-19	3.23	20.30021	18.57545	0.373081	2.155552	5.777707	5.567272	0.8
-19	3.23	20.30021	17.82672	0.379142	2.102273	5.544823	5.342869	0.8
-19	3.23	20.30021	17.31758	0.380147	2.047646	5.386462	5.190274	0.8
-20	3.23	20.30021	16.99563	0.376562	1.990629	5.286323	5.093782	0.8
-20	3.23	20.30021	16.53142	0.376427	1.935565	5.141934	4.954653	0.8
-20	3.23	20.30021	16.16455	0.374828	1.88457	5.027821	4.844698	0.8
-21	3.23	20.28284	15.74526	0.374399	1.833584	4.897407	4.719032	0.8
-21	3.23	20.28284	15.19869	0.379677	1.794887	4.727401	4.555219	0.8
-21	3.23	20.28284	14.50238	0.383757	1.731057	4.510818	4.346527	0.8
-22	3.23	20.28284	13.75365	0.394476	1.687543	4.277936	4.122124	0.8
-22	3.23	20.28284	13.00493	0.404497	1.636213	4.045052	3.897725	0.8

-22	3.23	20.28284	12.26369	0.412147	1.572133	3.814498	3.675567	0.8
-22	3.23	20.28284	11.58235	0.411831	1.483651	3.602573	3.471361	0.8
-23	3.23	20.28284	10.88603	0.413957	1.401655	3.385991	3.262666	0.8
-23	3.23	20.26548	10.26459	0.413408	1.319887	3.192698	3.076414	0.8
-23	3.23	20.26548	9.613198	0.414407	1.239115	2.99009	2.881184	0.8
-24	3.23	20.26548	9.074116	0.410988	1.159977	2.822413	2.719615	0.8
-24	3.23	20.26548	8.542521	0.40713	1.081771	2.657066	2.56029	0.8
-3	6.68	20.42176	86.88168	0.503318	13.60149	27.02368	21.06737	0.6
-3	6.68	20.42176	82.20964	0.437816	11.19518	25.57049	19.93448	0.6
-4	6.68	20.42176	76.33963	0.397726	9.443866	23.74468	18.5111	0.7
-4	6.68	20.42176	75.86044	0.347678	8.203676	23.59563	18.3949	0.8
-4	6.68	20.42176	75.86044	0.312215	7.366918	23.59564	18.3949	0.9
-5	6.68	20.40439	74.0635	0.295019	6.796254	23.03671	17.95917	0.9
-5	6.68	20.40439	71.30819	0.286674	6.35834	22.1797	17.29105	1.0
-5	6.68	20.40439	69.87064	0.277317	6.026815	21.73256	16.94247	1.0
-5	6.68	20.40439	67.11533	0.278252	5.808663	20.87556	16.27436	1.0
-6	6.68	20.40439	64.59961	0.284117	5.708776	20.09306	15.66434	1.0
-6	6.68	20.40439	63.76104	0.287789	5.707489	19.83223	15.461	1.0
-6	6.68	20.40439	62.92246	0.294536	5.764478	19.57141	15.25765	0.9
-6	6.68	20.40439	62.92246	0.294589	5.765524	19.57141	15.25765	0.9
-7	6.68	20.40439	61.12552	0.304435	5.788066	19.01248	14.82193	0.9
-7	6.68	20.40439	57.65144	0.327284	5.868819	17.9319	13.97952	0.8
-7	6.68	20.38703	54.41694	0.354238	5.995784	16.92585	13.19521	0.8
-8	6.68	20.38703	55.25551	0.35703	6.136154	17.18668	13.39855	0.8
-8	6.68	20.38703	56.57327	0.35331	6.217029	17.59655	13.71808	0.8
-8	6.68	20.36967	57.77123	0.345942	6.216294	17.96916	14.00857	0.8
-9	6.68	20.36967	58.37021	0.339967	6.172252	18.15547	14.15381	0.8
-9	6.68	20.36967	59.44838	0.330428	6.109875	18.49082	14.41525	0.8
-9	6.68	20.3523	60.76614	0.384448	7.266326	18.9007	14.73478	0.7
-9	6.68	20.3523	61.7245	0.374279	7.185698	19.19878	14.96717	0.7
-10	6.68	20.3523	61.60471	0.372201	7.131948	19.16153	14.93812	0.7
-10	6.68	20.3523	61.00573	0.375856	7.131948	18.97522	14.79288	0.7
-10	6.68	20.33494	60.28695	0.382487	7.172263	18.75166	14.61859	0.7
-11	6.68	20.33494	58.60981	0.39896	7.273044	18.22999	14.21191	0.7
-11	6.68	20.33494	57.05246	0.346289	6.145096	17.7456	13.83428	0.8
-11	6.68	20.33494	57.89103	0.351263	6.32499	18.00643	14.03762	0.8
-11	6.68	20.33494	58.13062	0.360056	6.510162	18.08095	14.09571	0.8
-12	6.68	20.31757	57.89103	0.370683	6.674685	18.00643	14.03762	0.7
-12	6.68	20.31757	58.60981	0.372217	6.785523	18.23	14.21191	0.7
-12	6.68	20.31757	58.8494	0.374702	6.858734	18.30452	14.27	0.7
-12	6.68	20.31757	59.56817	0.372157	6.895346	18.52808	14.44429	0.7
-13	6.68	20.31757	60.64634	0.368504	6.951252	18.86344	14.70573	0.8
-13	6.68	20.31757	60.88593	0.369531	6.998162	18.93796	14.76383	0.8
-13	6.68	20.31757	59.68797	0.377039	6.999869	18.56535	14.47334	0.7
-13	6.68	20.31757	59.08899	0.376739	6.924096	18.37904	14.3281	0.7
-14	6.68	20.30021	59.20879	0.367656	6.77087	18.4163	14.35715	0.8
-14	6.68	20.30021	57.89103	0.36568	6.584583	18.00642	14.03762	0.8
-14	6.68	20.30021	56.21388	0.366533	6.408746	17.48476	13.63093	0.8
-15	6.68	20.30021	56.09409	0.357043	6.229509	17.4475	13.60189	0.8
-15	6.68	20.30021	56.21388	0.344737	6.027648	17.48476	13.63093	0.8
-15	6.68	20.30021	55.97429	0.334973	5.831952	17.41024	13.57284	0.8
-15	6.68	20.30021	55.01592	0.330907	5.662535	17.11215	13.34045	0.8
-16	6.68	20.30021	54.53674	0.326623	5.540534	16.96311	13.22426	0.8
-16	6.68	20.30021	55.13572	0.319015	5.470913	17.14941	13.3695	0.9
-16	6.68	20.30021	56.09409	0.310745	5.421721	17.4475	13.60189	0.9
-17	6.68	20.30021	57.05246	0.302769	5.372814	17.74559	13.83428	0.9
-17	6.68	20.30021	57.53164	0.297647	5.326279	17.89464	13.95047	0.9
-17	6.68	20.30021	57.41184	0.298544	5.331208	17.85737	13.92142	0.9
-17	6.68	20.30021	55.97429	0.308349	5.368421	17.41024	13.57284	0.9
-18	6.68	20.28284	54.89613	0.314963	5.377964	17.0749	13.3114	0.9
-18	6.68	20.28284	53.69817	0.320713	5.356644	16.70228	13.02092	0.9
-18	6.68	20.28284	52.26061	0.326652	5.309772	16.25514	12.67233	0.8
-19	6.68	20.28284	51.06265	0.330502	5.249202	15.88253	12.38185	0.8
-19	6.68	20.28284	50.58347	0.330796	5.204568	15.73348	12.26565	0.8
-19	6.68	20.28284	50.46367	0.330035	5.180302	15.69622	12.2366	0.8
-19	6.68	20.28284	50.58347	0.328447	5.167606	15.73348	12.26565	0.8
-20	6.68	20.28284	50.22408	0.330187	5.158076	15.6217	12.17851	0.8
-20	6.68	20.28284	48.42714	0.342087	5.152779	15.06278	11.74278	0.8
-20	6.68	20.28284	45.43223	0.364445	5.150062	14.13125	11.01656	0.8
-21	6.68	20.28284	43.63529	0.379799	5.154754	13.57232	10.58084	0.7
-21	6.68	20.28284	42.67692	0.388593	5.158274	13.27423	10.34845	0.7

-21	6.68	20.28284	42.19774	0.397042	5.211251	13.12518	10.23225	0.7
-21	6.68	20.28284	41.71856	0.406297	5.272167	12.97614	10.11606	0.7
-22	6.68	20.28284	40.04141	0.425925	5.304675	12.45448	9.709379	0.7
-22	6.68	20.28284	38.12467	0.448663	5.320374	11.8583	9.244601	0.6
-22	6.68	20.28284	36.32773	0.470342	5.314572	11.29937	8.808873	0.6
-23	6.68	20.28284	34.77038	0.489141	5.290047	10.81499	8.431241	0.6
-23	6.68	20.28284	33.09324	0.505593	5.204231	10.29332	8.024563	0.5
-23	6.68	20.30021	30.81711	0.529579	5.076203	9.58535	7.472639	0.5
-23	6.68	20.30021	28.90037	0.545744	4.905783	8.989174	7.007861	0.5
-24	6.68	20.30021	27.10343	0.557602	4.700726	8.43025	6.572133	0.5
-24	6.68	20.31757	25.78567	0.556835	4.466029	8.020378	6.252598	0.5
-24	6.68	20.31757	24.46791	0.556704	4.236797	7.6105	5.933063	0.5
-25	6.68	20.31757	22.89559	0.561594	3.999364	7.121445	5.551801	0.5
-25	6.68	20.33494	20.38736	0.602747	3.822191	6.341284	4.943597	0.5
-25	6.68	20.33494	17.66949	0.670974	3.687619	5.495917	4.284559	0.4
-25	6.68	20.3523	15.28854	0.755063	3.590588	4.755347	3.707218	0.4
-26	6.68	20.3523	13.76114	0.813562	3.48226	4.280265	3.336849	0.3
-26	6.68	20.36967	12.99744	0.821628	3.321616	4.042723	3.151664	0.3
-26	6.68	20.36967	12.82523	0.773005	3.083642	3.98916	3.109906	0.4
-27	6.68	20.36967	12.51825	0.719076	2.79985	3.893678	3.035468	0.4
-27	6.68	20.38703	12.06153	0.668046	2.506254	3.751619	2.924721	0.4
-27	6.68	20.38703	11.10316	0.64762	2.236575	3.453528	2.692332	0.4
-27	6.68	20.38703	10.01751	0.647487	2.017471	3.115846	2.42908	0.4
-28	6.68	20.38703	9.104065	0.648971	1.837709	2.831728	2.207585	0.4
-28	6.68	20.40439	8.190619	0.656166	1.671656	2.547611	1.986089	0.4
-3	9.52	20.45649	408.1748	0.375232	47.63902	126.9588	48.06102	1.7
-4	9.52	20.45649	408.1748	0.36502	46.34245	126.9587	48.06102	1.7
-4	9.52	20.45649	314.7339	0.503275	49.26804	97.89482	37.05871	1.3
-4	9.52	20.45649	266.4561	0.667088	55.28727	82.87852	31.37419	1.0
-5	9.52	20.45649	272.326	0.698052	59.12801	84.70429	32.06535	0.9
-5	9.52	20.45649	286.7016	0.637352	56.83625	89.17568	33.75802	1.0
-5	9.52	20.43912	288.0193	0.552544	49.49999	89.58558	33.91317	1.2
-6	9.52	20.43912	328.151	0.413181	42.17259	102.0681	38.63853	1.5
-6	9.52	20.43912	257.7109	0.452538	36.2747	80.1584	30.34447	1.4
-6	9.52	20.43912	253.5181	0.410406	32.36227	78.85426	29.85079	1.6
-7	9.52	20.43912	253.3983	0.378647	29.84383	78.81702	29.83668	1.7
-7	9.52	20.42176	256.3932	0.342156	27.28644	79.74853	30.18932	1.9
-7	9.52	20.42176	240.2207	0.332769	24.86389	74.71825	28.28507	1.9
-8	9.52	20.42176	248.9658	0.291679	22.58712	77.43832	29.31477	2.2
-8	9.52	20.42176	250.044	0.261175	20.31251	77.77367	29.44173	2.4
-8	9.52	20.40439	238.1842	0.257514	19.07784	74.0848	28.04528	2.5
-9	9.52	20.38703	238.0644	0.246148	18.22667	74.04754	28.03117	2.6
-9	9.52	20.38703	236.8664	0.238572	17.57677	73.67494	27.89011	2.7
-9	9.52	20.36967	231.9548	0.243935	17.59926	72.14722	27.31179	2.6
-9	9.52	20.36967	205.36	0.277845	17.74738	63.87518	24.18036	2.3
-10	9.52	20.3523	181.1612	0.315298	17.76655	56.34839	21.33104	2.0
-10	9.52	20.3523	170.739	0.332803	17.67407	53.10664	20.10386	1.9
-10	9.52	20.3523	162.2334	0.345355	17.427	50.46109	19.10236	1.8
-11	9.52	20.3523	172.6557	0.312374	16.77536	53.70283	20.32955	2.0
-11	9.52	20.33494	176.7288	0.291303	16.01284	54.96972	20.80914	2.2
-11	9.52	20.33494	175.5308	0.281996	15.39616	54.59709	20.66808	2.3
-11	9.52	20.33494	170.6192	0.281458	14.93679	53.06939	20.08976	2.3
-12	9.52	20.33494	155.5249	0.304334	14.72198	48.37445	18.31246	2.1
-12	9.52	20.33494	148.3371	0.315918	14.57608	46.13877	17.46613	2.0
-12	9.52	20.31757	147.7381	0.315939	14.51818	45.95247	17.3956	2.0
-13	9.52	20.31757	146.3006	0.320385	14.5792	45.50533	17.22634	2.0
-13	9.52	20.31757	142.2275	0.331007	14.64321	44.23844	16.74674	1.9
-13	9.52	20.30021	142.8265	0.331418	14.72316	44.42475	16.81727	1.9
-14	9.52	20.30021	139.4722	0.339785	14.74037	43.38143	16.42232	1.9
-14	9.52	20.30021	128.9301	0.366092	14.68119	40.10242	15.18103	1.7
-14	9.52	20.28284	122.1017	0.382979	14.54497	37.97852	14.37701	1.7
-14	9.52	20.28284	121.8621	0.37787	14.3228	37.904	14.3488	1.7
-15	9.52	20.28284	117.9089	0.383217	14.05425	36.67438	13.88332	1.7
-15	9.52	20.28284	112.7576	0.389475	13.65974	35.07214	13.27678	1.6
-15	9.52	20.26548	106.0491	0.401808	13.25384	32.98551	12.48688	1.6
-16	9.52	20.26548	98.7415	0.41719	12.81297	30.71255	11.62643	1.5
-16	9.52	20.26548	94.90803	0.421481	12.44219	29.52019	11.17506	1.5
-16	9.52	20.26548	91.67353	0.428917	12.23018	28.51414	10.79421	1.5
-16	9.52	20.26548	90.11618	0.429823	12.04781	28.02973	10.61084	1.5
-17	9.52	20.26548	91.07455	0.411573	11.65896	28.32783	10.72368	1.5
-17	9.52	20.24812	89.15781	0.404006	11.20374	27.73165	10.49799	1.6

-17	9.52	20.24812	88.67863	0.390642	10.77492	27.5826	10.44157	1.6
-18	9.52	20.24812	86.64209	0.387354	10.43887	26.94916	10.20177	1.6
-18	9.52	20.24812	82.32943	0.395936	10.13904	25.60774	9.693976	1.6
-18	9.52	20.24812	74.1833	0.423347	9.768298	23.07397	8.7348	1.5
-19	9.52	20.24812	68.43308	0.442622	9.421397	21.28542	8.057734	1.4
-19	9.52	20.24812	62.56308	0.473731	9.218621	19.45961	7.366564	1.3
-19	9.52	20.24812	48.90632	0.604488	9.195366	15.21182	5.758532	1.1
-19	9.52	20.24812	43.3957	0.688275	9.290195	13.4978	5.109678	0.9
-20	9.52	20.24812	50.10428	0.583872	9.09932	15.58443	5.899587	1.1
-20	9.52	20.24812	58.60981	0.471206	8.590087	18.23	6.901081	1.4
-20	9.52	20.24812	61.48491	0.412303	7.884985	19.12427	7.239613	1.5
-21	9.52	20.24812	60.76614	0.378377	7.151596	18.9007	7.154981	1.7
-21	9.52	20.24812	58.60981	0.356322	6.495755	18.22999	6.901081	1.8
-21	9.52	20.24812	58.8494	0.324968	5.948389	18.30452	6.929292	2.0
-21	9.52	20.23075	58.13062	0.310346	5.611347	18.08094	6.844658	2.1
-22	9.52	20.23075	55.25551	0.315092	5.415388	17.18668	6.506125	2.0
-22	9.52	20.23075	53.45857	0.329593	5.480391	16.62776	6.294542	1.9
-22	6.68	20.23075	52.7398	0.344586	5.652655	16.40418	12.78853	1.8
-23	9.52	20.23075	52.97939	0.349274	5.755579	16.47871	6.238121	1.8
-23	9.52	20.23075	53.45857	0.345258	5.740865	16.62775	6.294542	1.8
-23	9.52	20.23075	53.09918	0.342664	5.659425	16.51597	6.252226	1.9
-23	9.52	20.23075	52.02102	0.344329	5.571452	16.18062	6.125276	1.9
-24	9.52	20.23075	50.94286	0.346698	5.493519	15.84527	5.998327	1.8
-24	9.52	20.21339	49.74489	0.352126	5.448319	15.47266	5.857271	1.8
-24	9.52	20.21339	48.78653	0.358876	5.445783	15.17456	5.744427	1.8
-25	6.68	20.21339	47.82816	0.371482	5.526343	14.87646	11.59754	1.7
-25	6.68	20.21339	46.86979	0.390711	5.695929	14.57838	11.36515	1.6
-25	9.52	20.19602	46.03121	0.41121	5.887521	14.31755	5.419999	1.5
-25	9.52	20.21339	44.83325	0.430635	6.00518	13.94494	5.278944	1.5
-26	9.52	20.21339	43.99468	0.441286	6.0386	13.6841	5.180205	1.4
-26	9.52	20.21339	43.03631	0.449099	6.011643	13.38602	5.067361	1.4
-26	9.52	20.21339	41.47896	0.460416	5.940117	12.90162	4.883989	1.4
-26	9.52	20.21339	39.20284	0.479049	5.841357	12.19365	4.615985	1.3
-27	9.52	20.23075	36.56732	0.506517	5.761074	11.3739	4.305662	1.3
-27	9.52	20.23075	33.93181	0.535269	5.649316	10.55415	3.995341	1.2
-27	9.52	20.24812	30.45772	0.587207	5.562946	9.473572	3.58628	1.1
-28	9.52	20.24812	26.50445	0.667538	5.503144	8.243944	3.120798	1.0
-28	9.52	20.26548	23.8914	0.73426	5.456415	7.431181	2.813121	0.9
-28	9.52	20.26548	24.69253	0.696031	5.345771	7.680369	2.907451	0.9
-28	9.52	20.28284	25.7108	0.639375	5.113135	7.997086	3.027348	1.0
-29	9.52	20.30021	25.2391	0.606993	4.765124	7.850374	2.971808	1.1
-29	9.52	20.31757	24.4155	0.5759	4.373495	7.594195	2.874832	1.1
-29	9.52	20.33494	23.36729	0.547134	3.976656	7.268161	2.751409	1.2
-30	9.52	20.33494	21.7126	0.551731	3.726111	6.753489	2.556576	1.2
-30	9.52	20.3523	19.72848	0.57622	3.535886	6.136347	2.322953	1.1
-30	9.52	20.3523	17.52723	0.626895	3.417624	5.451669	2.063764	1.0
-31	9.52	20.36967	15.88752	0.677983	3.350358	4.941654	1.870695	0.9
-31	9.52	20.36967	14.76443	0.712644	3.272694	4.592329	1.738455	0.9
-31	9.52	20.36967	14.02319	0.721163	3.145548	4.361774	1.651177	0.9
-31	9.52	20.38703	13.22206	0.711565	2.926372	4.112588	1.556847	0.9
-32	9.52	20.38703	12.62308	0.683119	2.682117	3.926282	1.486319	0.9
-32	9.52	20.38703	11.80696	0.663739	2.437542	3.672439	1.390224	1.0
-32	9.52	20.38703	11.02829	0.641593	2.200816	3.430239	1.298539	1.0
-33	9.52	20.38703	10.30951	0.618602	1.983652	3.206671	1.213905	1.0
-33	9.52	20.38703	9.575762	0.606075	1.805162	2.978445	1.127509	1.1
-33	9.52	20.40439	8.804575	0.597181	1.635425	2.738575	1.036705	1.1
-34	9.52	20.40439	7.94354	0.611273	1.510309	2.470759	0.935321	1.0
-34	9.52	20.40439	7.292149	0.619234	1.404516	2.26815	0.858623	1.0
-34	9.52	20.40439	6.700655	0.62803	1.308922	2.084172	0.788977	1.0
-35	9.52	20.40439	6.184035	0.631745	1.215149	1.923482	0.728146	1.0
-4	14.04	20.28284	324.078	0.28065	28.2899	100.8012	34.10259	0.8
-4	14.04	20.28284	290.4153	0.266763	24.09687	90.33075	30.56028	0.9
-4	14.04	20.28284	260.4662	0.259176	20.99726	81.01542	27.40875	0.9
-5	14.04	20.28284	248.247	0.243765	18.82227	77.21476	26.12293	0.9
-5	14.04	20.28284	242.2572	0.228882	17.24662	75.35169	25.49262	1.0
-5	14.04	20.26548	236.7466	0.214797	15.81711	73.63765	24.91275	1.1
-6	14.04	20.26548	228.3609	0.2046	14.53261	71.02939	24.03032	1.1
-6	14.04	20.24812	212.9072	0.202199	13.39018	66.22267	22.40414	1.1
-7	14.04	20.24812	184.3957	0.214302	12.29116	57.35444	19.40388	1.1
-7	14.04	20.24812	158.6396	0.230074	11.35261	49.34326	16.69358	1.0
-7	14.04	20.24812	148.3371	0.232486	10.7266	46.13877	15.60945	1.0

-7	14.04	20.23075	141.7483	0.23708	10.45273	44.0894	14.91611	1.0
-8	14.04	20.23075	135.9981	0.242175	10.24421	42.30084	14.31102	0.9
-8	14.04	20.23075	134.2011	0.237708	9.922388	41.74193	14.12193	1.0
-8	14.04	20.21339	136.4773	0.223714	9.496643	42.44989	14.36145	1.0
-9	14.04	20.21339	144.6234	0.200255	9.008189	44.98366	15.21866	1.1
-9	14.04	20.19602	147.4985	0.187073	8.58254	45.87795	15.52121	1.2
-9	14.04	20.19602	146.1808	0.181933	8.272122	45.46806	15.38254	1.3
-10	14.04	20.19602	144.6234	0.180531	8.120965	44.98367	15.21866	1.3
-10	14.04	20.19602	141.9879	0.183006	8.082253	44.16392	14.94133	1.3
-10	14.04	20.17866	135.2793	0.191779	8.069518	42.07728	14.23538	1.2
-11	14.04	20.17866	119.586	0.218708	8.135061	37.19604	12.58398	1.0
-11	14.04	20.17866	111.4399	0.23962	8.305757	34.66226	11.72677	1.0
-11	14.04	20.17866	110.1221	0.249211	8.536087	34.25239	11.5881	0.9
-11	14.04	20.16129	109.044	0.255483	8.665207	33.91703	11.47465	0.9
-12	14.04	20.16129	107.4866	0.260664	8.714693	33.43263	11.31077	0.9
-12	14.04	20.16129	104.2521	0.270929	8.785308	32.42658	10.9704	0.8
-12	14.04	20.16129	98.38211	0.291414	8.917482	30.60077	10.35271	0.8
-13	14.04	20.16129	92.99129	0.313368	9.063857	28.92402	9.785434	0.7
-13	14.04	20.16129	93.71006	0.311377	9.075888	29.14758	9.86107	0.7
-13	14.04	20.16129	97.66334	0.293225	8.907343	30.3772	10.27707	0.8
-13	14.04	20.14393	97.42374	0.286672	8.686915	30.30268	10.25186	0.8
-14	14.04	20.14393	94.66843	0.288004	8.480471	29.44567	9.961919	0.8
-14	14.04	20.14393	92.3923	0.287178	8.252829	28.73771	9.722403	0.8
-14	14.04	20.14393	90.59537	0.284744	8.023743	28.17879	9.533313	0.8
-15	14.04	20.14393	89.3974	0.279618	7.775097	27.80616	9.407251	0.8
-15	14.04	20.12657	87.95985	0.274873	7.52026	27.35903	9.255978	0.8
-15	14.04	20.12657	86.16291	0.272879	7.313198	26.80012	9.066887	0.8
-16	14.04	20.1092	83.5274	0.27676	7.19032	25.98037	8.789553	0.8
-16	14.04	20.1092	80.53249	0.28427	7.12063	25.04883	8.4744	0.8
-16	14.04	20.1092	79.21474	0.288237	7.101855	24.63895	8.335734	0.8
-16	14.04	20.09184	77.77718	0.295864	7.15748	24.19181	8.18446	0.8
-17	14.04	20.09184	74.42289	0.31298	7.245012	23.1485	7.831489	0.7
-17	14.04	20.09184	74.42289	0.31254	7.234838	23.1485	7.831489	0.7
-17	14.04	20.09184	73.70412	0.311986	7.152252	22.92493	7.755854	0.7
-18	14.04	20.07447	70.70921	0.318188	6.998033	21.99339	7.4407	0.7
-18	14.04	20.07447	66.03716	0.332802	6.835817	20.5402	6.949063	0.7
-18	14.04	20.07447	63.28185	0.338778	6.668235	19.68318	6.659123	0.7
-19	14.04	20.05711	62.68287	0.332679	6.486208	19.49688	6.596092	0.7
-19	14.04	20.05711	64.59961	0.312252	6.2741	20.09306	6.79779	0.7
-19	14.04	20.05711	66.03716	0.295466	6.068922	20.5402	6.949063	0.8
-19	14.04	20.05711	64.59961	0.293884	5.905038	20.09307	6.79779	0.8
-20	14.04	20.05711	62.56308	0.298032	5.799596	19.45962	6.583487	0.8
-20	14.04	20.05711	61.60471	0.296034	5.672454	19.16153	6.482638	0.8
-20	14.04	20.05711	60.28695	0.293365	5.501071	18.75165	6.34397	0.8
-21	14.04	20.07447	58.01082	0.294216	5.30874	18.04369	6.104454	0.8
-21	14.04	20.07447	55.25551	0.298962	5.138165	17.18668	5.814514	0.8
-21	14.04	20.07447	52.7398	0.30339	4.97686	16.40419	5.549787	0.8
-22	14.04	20.07447	52.38041	0.297698	4.850207	16.2924	5.511969	0.8
-22	14.04	20.07447	52.85959	0.286423	4.709215	16.44146	5.562392	0.8
-22	14.04	20.07447	52.7398	0.276468	4.535235	16.40419	5.549787	0.8
-22	14.04	20.07447	51.18245	0.27764	4.419978	15.91979	5.385908	0.8
-23	14.04	20.07447	49.02612	0.284324	4.335682	15.24908	5.158998	0.8
-23	14.04	20.07447	47.94795	0.28499	4.250258	14.91373	5.045543	0.8
-23	14.04	20.07447	47.58856	0.280855	4.157204	14.80195	5.007724	0.8
-23	14.04	20.07447	47.22918	0.275658	4.049466	14.69016	4.969907	0.8
-24	14.04	20.07447	46.6302	0.271593	3.939141	14.50385	4.906876	0.8
-24	14.04	20.07447	45.43223	0.271595	3.837973	14.13124	4.780814	0.8
-24	14.04	20.07447	43.87489	0.274391	3.744566	13.64685	4.616936	0.8
-25	14.04	20.07447	42.79672	0.273914	3.646206	13.31149	4.503481	0.8
-25	14.04	20.07447	41.95815	0.27064	3.532031	13.05066	4.415239	0.8
-25	14.04	20.07447	40.99978	0.268666	3.426177	12.75257	4.31439	0.9
-25	14.04	20.07447	40.04141	0.268173	3.339959	12.45448	4.213541	0.9
-26	14.04	20.07447	39.08304	0.26923	3.272869	12.15639	4.112692	0.9
-26	14.04	20.07447	38.24447	0.268552	3.19457	11.89556	4.02445	0.9
-26	14.04	20.09184	37.64548	0.267365	3.130643	11.70925	3.961418	0.9
-26	14.04	20.09184	36.92671	0.266696	3.063186	11.48569	3.885782	0.9
-27	14.04	20.07447	35.96834	0.268465	3.003473	11.18759	3.784933	0.9
-27	14.04	20.07447	35.12977	0.269057	2.939919	10.92677	3.696691	0.9
-27	14.04	20.07447	34.29119	0.269858	2.87829	10.66593	3.608448	0.8
-28	14.04	20.07447	33.57242	0.2689	2.807952	10.44237	3.532812	0.9
-28	14.04	20.07447	32.97344	0.266948	2.737838	10.25606	3.469781	0.9

-28	14.04	20.07447	32.37446	0.265624	2.674771	10.06975	3.406751	0.9
-28	14.04	20.07447	31.89527	0.263265	2.61177	9.920706	3.356326	0.9
-29	14.04	20.07447	31.29629	0.262428	2.554581	9.734398	3.293295	0.9
-29	14.04	20.07447	30.69731	0.261488	2.496711	9.548094	3.230265	0.9
-29	14.04	20.07447	30.09833	0.261082	2.444192	9.361786	3.167235	0.9
-29	14.04	20.05711	29.49935	0.260211	2.387562	9.17548	3.104204	0.9
-30	14.04	20.05711	29.02017	0.259031	2.338123	9.026434	3.05378	0.9
-30	14.04	20.05711	28.42119	0.258586	2.285932	8.840124	2.99075	0.9
-30	14.04	20.05711	28.0618	0.256743	2.240941	8.728344	2.952931	0.9
-30	14.04	20.05711	27.58261	0.256832	2.203436	8.579299	2.902506	0.9
-31	14.04	20.05711	27.10343	0.256199	2.159824	8.430252	2.852083	0.9
-31	14.04	20.05711	26.74404	0.254992	2.121144	8.318469	2.814264	0.9
-31	14.04	20.05711	26.38465	0.252939	2.075787	8.206681	2.776446	0.9
-32	14.04	20.05711	25.90547	0.251174	2.023869	8.057636	2.726022	0.9
-32	14.04	20.05711	25.54608	0.249884	1.985539	7.945851	2.688203	0.9
-32	14.04	20.05711	25.0669	0.249852	1.948051	7.796808	2.637779	0.9
-32	14.04	20.05711	24.70751	0.248542	1.910049	7.685025	2.599961	0.9
-33	14.04	20.05711	24.08607	0.249146	1.866532	7.491732	2.534567	0.9
-33	14.04	20.07447	23.59939	0.248299	1.822599	7.340356	2.483354	0.9
-33	14.04	20.07447	23.05282	0.248787	1.783887	7.170351	2.425839	0.9
-34	14.04	20.07447	22.61856	0.249024	1.75195	7.035278	2.380142	0.9
-34	14.04	20.07447	22.28164	0.247876	1.717901	6.930481	2.344688	0.9
-34	14.04	20.07447	21.92225	0.246744	1.682475	6.818697	2.306869	0.9
-34	14.04	20.07447	21.58532	0.245599	1.648925	6.713898	2.271414	0.9
-35	14.04	20.07447	21.13609	0.246872	1.622978	6.574169	2.224142	0.9
-35	14.04	20.07447	20.72429	0.248497	1.601834	6.446084	2.180808	0.9
-35	14.04	20.09184	20.39485	0.250022	1.586046	6.343614	2.146142	0.9
-36	14.04	20.09184	20.05043	0.253058	1.578194	6.236487	2.109898	0.9
-36	14.04	20.09184	19.66858	0.257381	1.574586	6.117716	2.069716	0.9
-36	14.04	20.09184	19.45894	0.26172	1.584063	6.052509	2.047656	0.9
-36	14.04	20.09184	19.09955	0.269345	1.600104	5.940724	2.009838	0.8
-37	14.04	20.09184	18.96478	0.275744	1.626562	5.898804	1.995656	0.8
-37	14.04	20.09184	18.77011	0.285127	1.664645	5.838256	1.975171	0.8
-37	14.04	20.09184	18.29842	0.297162	1.691311	5.69154	1.925535	0.8
-38	14.04	20.1092	17.76682	0.312496	1.726914	5.526192	1.869595	0.7
-38	14.04	20.1092	16.91327	0.336611	1.770809	5.260705	1.779776	0.7
-38	14.04	20.14393	15.90998	0.361853	1.790679	4.94864	1.674201	0.6
-38	14.04	20.16129	14.77192	0.388075	1.78307	4.594658	1.554443	0.6
-39	14.04	20.19602	13.85847	0.403155	1.737815	4.310539	1.458321	0.6
-39	14.04	20.24812	12.78031	0.415765	1.652745	3.975187	1.344867	0.6
-39	14.04	20.30021	11.64973	0.4332	1.569715	3.623533	1.225896	0.5
-40	14.04	20.33494	10.68388	0.443974	1.475377	3.323113	1.12426	0.5
-40	14.04	20.36967	9.673097	0.455924	1.371748	3.00872	1.017896	0.5
-4	21.83	20.05711	159.2385	0.262661	13.00948	49.52955	26.17548	0.8
-4	21.83	20.05711	150.9726	0.230385	10.81855	46.95851	24.81674	0.9
-5	21.83	20.05711	144.5036	0.207059	9.306546	44.94641	23.75337	1.0
-5	21.83	20.05711	134.3209	0.197622	8.256479	41.77919	22.07955	1.0
-5	21.83	20.05711	124.857	0.190564	7.40064	38.83554	20.52388	1.1
-6	21.83	20.03975	117.4297	0.18489	6.753158	36.52533	19.30299	1.1
-6	21.83	20.03975	113.2368	0.178103	6.273012	35.22118	18.61376	1.2
-6	21.83	20.03975	110.6013	0.17252	5.934924	34.40143	18.18054	1.2
-7	21.83	20.03975	107.247	0.170293	5.680657	33.35812	17.62917	1.2
-7	21.83	20.03975	104.9709	0.167805	5.478849	32.65015	17.25502	1.2
-7	21.83	20.03975	102.0958	0.166666	5.292635	31.75588	16.78242	1.2
-8	21.83	20.03975	99.34048	0.166326	5.139292	30.89887	16.3295	1.2
-8	21.83	20.03975	95.98619	0.16721	4.992157	29.85554	15.77812	1.2
-8	21.83	20.03975	93.11108	0.168838	4.889769	28.96127	15.30552	1.2
-8	21.83	20.03975	90.95475	0.170585	4.825941	28.29055	14.95106	1.2
-9	21.83	20.03975	89.99638	0.171558	4.802337	27.99248	14.79352	1.2
-9	21.83	20.03975	90.23598	0.170978	4.79885	28.06701	14.83291	1.2
-9	21.83	20.03975	90.23598	0.171582	4.815802	28.06701	14.83291	1.2
-10	21.83	20.03975	90.23598	0.173305	4.864134	28.06698	14.83291	1.2
-10	21.83	20.03975	90.83495	0.174562	4.931937	28.25329	14.93137	1.2
-10	21.83	20.03975	92.27251	0.175103	5.025534	28.70044	15.16767	1.2
-11	21.83	20.05711	92.6319	0.178314	5.137625	28.81222	15.22675	1.2
-11	21.83	20.03975	92.6319	0.181877	5.240268	28.81222	15.22675	1.1
-11	21.83	20.03975	91.43394	0.187411	5.329882	28.43961	15.02983	1.1
-12	21.83	20.03975	90.83495	0.191131	5.400069	28.25329	14.93137	1.1
-12	21.83	20.03975	89.3974	0.196074	5.452056	27.80617	14.69506	1.1
-12	21.83	20.03975	87.24107	0.201842	5.477082	27.13545	14.34061	1.0
-13	21.83	20.03975	84.00658	0.209054	5.462446	26.12941	13.80893	1.0

-13	21.83	20.02238	81.61066	0.21327	5.41369	25.38418	13.41509	1.0
-13	21.83	20.02238	79.69392	0.21551	5.34206	24.78799	13.10002	1.0
-14	21.83	20.02238	77.298	0.218047	5.24245	24.04277	12.70618	0.9
-14	21.83	20.02238	75.26146	0.219021	5.127127	23.40934	12.37141	0.9
-14	21.83	20.00502	73.70412	0.218143	5.000923	22.92493	12.11542	0.9
-15	21.83	20.00502	72.62595	0.215199	4.861244	22.58957	11.93819	1.0
-15	21.83	20.00502	71.42799	0.212957	4.73126	22.21695	11.74127	1.0
-15	21.83	20.00502	69.99043	0.211834	4.611587	21.76982	11.50496	1.0
-15	21.83	20.00502	68.55288	0.211799	4.516124	21.32269	11.26866	1.0
-16	21.83	20.00502	67.71431	0.210732	4.438411	21.06186	11.13082	1.0
-16	21.83	20.00502	66.99553	0.20976	4.371032	20.83828	11.01267	1.0
-16	21.83	20.00502	65.67777	0.210785	4.306	20.42842	10.79605	1.0
-17	21.83	19.98765	65.0788	0.209365	4.23799	20.24211	10.69759	1.0
-17	21.83	19.98765	63.28185	0.210906	4.151293	19.68319	10.40221	1.0
-17	21.83	19.98765	61.00573	0.214619	4.072442	18.97523	10.02807	1.0
-18	21.83	19.98765	59.92756	0.213402	3.977789	18.63987	9.850839	1.0
-18	21.83	19.98765	58.13062	0.214741	3.882717	18.08095	9.555459	1.0
-18	21.83	19.98765	56.09409	0.217093	3.787736	17.4475	9.220696	1.0
-19	21.83	19.98765	54.17735	0.219654	3.701457	16.85132	8.905624	0.9
-19	21.83	19.98765	52.97939	0.218919	3.607501	16.47871	8.708705	0.9
-19	21.83	19.98765	51.42204	0.21899	3.502589	15.99431	8.452709	0.9
-20	21.83	19.97029	50.70326	0.215522	3.398942	15.77074	8.334556	1.0
-20	21.83	19.97029	49.38551	0.214148	3.289499	15.36087	8.117946	1.0
-20	21.83	19.97029	48.30734	0.211773	3.181999	15.02552	7.940717	1.0
-21	21.83	19.95292	47.70836	0.208313	3.091205	14.83921	7.842257	1.0
-21	21.83	19.93556	46.74999	0.206376	3.000942	14.54112	7.684721	1.0
-21	21.83	19.93556	45.91142	0.20556	2.935454	14.28029	7.546878	1.0
-21	21.83	19.9182	45.07285	0.205796	2.885147	14.01946	7.409035	1.0
-22	21.83	19.90083	44.11448	0.20766	2.849385	13.72137	7.251499	1.0
-22	21.83	19.88347	43.03631	0.209862	2.809219	13.38602	7.07427	1.0
-22	21.83	19.88347	42.31754	0.211839	2.788323	13.16245	6.956119	1.0
-23	21.83	19.8661	41.11957	0.215204	2.752418	12.78983	6.759198	1.0
-23	21.83	19.8661	40.281	0.216804	2.716341	12.529	6.621355	1.0
-23	21.83	19.8661	39.08304	0.218842	2.660324	12.15639	6.424435	0.9
-24	21.83	19.84874	38.00488	0.219888	2.599306	11.82104	6.247208	0.9
-24	21.83	19.84874	36.68712	0.221547	2.528109	11.41116	6.030596	0.9
-24	21.83	19.84874	34.29119	0.231402	2.468122	10.66593	5.636755	0.9
-25	21.83	19.84874	32.37446	0.240234	2.419092	10.06975	5.321685	0.9
-25	21.83	19.84874	31.41609	0.2439	2.383304	9.771661	5.164149	0.8
-25	21.83	19.83138	30.9369	0.244551	2.35322	9.622614	5.08538	0.8
-25	21.83	19.83138	28.54098	0.262998	2.334736	8.877388	4.691541	0.8
-26	21.83	19.83138	28.30139	0.26248	2.310576	8.802864	4.652157	0.8
-26	21.83	19.83138	28.30139	0.25665	2.259252	8.802864	4.652157	0.8
-26	21.83	19.83138	29.13996	0.24102	2.184531	9.063696	4.79	0.9
-26	21.83	19.84874	29.61915	0.224984	2.072715	9.212739	4.868769	0.9
-27	21.83	19.84874	29.25976	0.214655	1.95357	9.100957	4.809693	1.0
-27	21.83	19.84874	28.78057	0.207198	1.854814	8.951911	4.730924	1.0
-27	21.83	19.8661	28.18159	0.203302	1.782063	8.765602	4.632464	1.0
-28	21.83	19.8661	27.46282	0.200885	1.715969	8.542037	4.514314	1.0
-28	21.83	19.8661	26.86384	0.198368	1.657508	8.355729	4.415854	1.0
-28	21.83	19.8661	26.14506	0.198368	1.613158	8.132163	4.297702	1.0
-29	21.83	19.8661	25.42628	0.198331	1.56852	7.908593	4.179549	1.0
-29	21.83	19.8661	24.8273	0.197985	1.528896	7.722284	4.081089	1.0
-29	21.83	19.8661	24.15345	0.19757	1.484279	7.512691	3.970322	1.0
-30	21.83	19.8661	23.63683	0.196069	1.441501	7.351999	3.885401	1.1
-30	21.83	19.8661	22.92554	0.195952	1.397288	7.13076	3.76848	1.1
-30	21.83	19.8661	22.57364	0.193686	1.359927	7.021303	3.710635	1.1
-31	21.83	19.88347	21.95968	0.193771	1.323523	6.83034	3.609713	1.1
-31	21.83	19.88347	21.65271	0.189221	1.274379	6.734858	3.559253	1.1
-31	21.83	19.88347	20.85906	0.191262	1.240906	6.488003	3.428794	1.1
-32	21.83	19.88347	20.4248	0.190828	1.212314	6.35293	3.35741	1.1
-32	21.83	19.88347	19.77341	0.193773	1.191764	6.150319	3.250335	1.1
-32	21.83	19.88347	19.11453	0.196887	1.170568	5.945383	3.142029	1.1
-33	21.83	19.90083	18.49308	0.200753	1.154751	5.752088	3.039876	1.0
-33	21.83	19.90083	18.0738	0.20038	1.126472	5.621672	2.970955	1.0
-33	21.83	19.9182	17.71441	0.196523	1.082822	5.50989	2.911879	1.1
-34	21.83	19.93556	17.09297	0.194065	1.031765	5.316597	2.809727	1.1
-34	21.83	19.93556	16.43409	0.191113	0.976902	5.111658	2.701421	1.1
-34	21.83	19.95292	15.75275	0.188139	0.921831	4.899734	2.589423	1.1
-35	21.83	19.95292	15.13879	0.185371	0.872869	4.70877	2.488501	1.1
-35	21.83	19.97029	14.21037	0.186871	0.82597	4.419995	2.335888	1.1

-35	21.83	19.98765	13.40175	0.187583	0.781937	4.16848	2.202968	1.1
-36	21.83	20.00502	12.57815	0.190169	0.743999	3.912308	2.067585	1.1
-36	21.83	20.02238	11.79199	0.192732	0.706897	3.66778	1.938357	1.1
-36	21.83	20.03975	10.99085	0.196541	0.671894	3.418594	1.806666	1.1
-37	21.83	20.07447	10.23464	0.200368	0.637847	3.183383	1.682361	1.0
-37	21.83	20.09184	9.747969	0.198518	0.601909	3.032009	1.602362	1.0
-37	21.83	20.1092	9.021705	0.201617	0.56576	2.806112	1.48298	1.0
-38	21.83	20.12657	8.392776	0.203438	0.531073	2.610488	1.379597	1.0
-38	21.83	20.14393	7.56169	0.212748	0.50038	2.351988	1.242984	1.0
-39	21.83	20.17866	6.940248	0.21904	0.47284	2.158694	1.140832	0.9
-39	21.83	20.19602	6.273882	0.231062	0.450901	1.951427	1.031295	0.9
-39	21.83	20.21339	5.57008	0.252404	0.437294	1.732517	0.915605	0.8
-39	21.83	20.23075	5.165768	0.263952	0.424107	1.60676	0.849144	0.8
-40	21.83	20.26548	4.753969	0.27552	0.407404	1.478675	0.781453	0.8
-40	21.83	20.30021	4.402068	0.283999	0.388856	1.369219	0.723608	0.7
-40	21.83	20.33494	4.162476	0.285337	0.369425	1.294696	0.684224	0.7
-41	21.83	20.36967	4.035192	0.277671	0.348507	1.255107	0.663301	0.7
-41	21.83	20.40439	3.900422	0.263433	0.319594	1.213187	0.641148	0.8
-41	21.83	20.43912	3.653342	0.255754	0.290622	1.136336	0.600533	0.8
-41	21.83	20.49121	3.41375	0.245884	0.261083	1.061813	0.561149	0.8
-42	21.83	20.52594	3.271492	0.228881	0.232901	1.017565	0.537765	0.9
-42	21.83	20.56067	3.106772	0.216798	0.209498	0.96633	0.510688	1.0
-42	21.83	20.5954	2.874668	0.211848	0.189421	0.894136	0.472535	1.0
-42	21.83	20.61276	2.665024	0.20877	0.173055	0.828929	0.438074	1.0
-43	21.83	20.64749	2.522767	0.204142	0.160186	0.784681	0.41469	1.0
-43	21.83	20.66486	2.545228	0.188528	0.149251	0.791668	0.418382	1.1
-43	21.83	20.68222	2.545228	0.179237	0.141896	0.791668	0.418382	1.2
-43	21.83	20.69958	2.462868	0.175974	0.134805	0.766051	0.404844	1.2
-43	21.83	20.71695	2.320611	0.176878	0.127671	0.721802	0.38146	1.2
-43	21.83	20.73431	2.260713	0.172844	0.121539	0.703172	0.371614	1.2
-43	21.83	20.75168	2.305636	0.161766	0.11601	0.717145	0.378998	1.3
-43	21.83	20.75168	2.155891	0.166215	0.111459	0.670568	0.354383	1.2
-43	21.83	20.76904	2.073531	0.165076	0.106466	0.644951	0.340845	1.3
-44	21.83	20.76904	1.953735	0.166707	0.101306	0.60769	0.321153	1.2
-44	21.83	20.78641	1.871375	0.165548	0.096361	0.582073	0.307615	1.3
-44	21.83	20.78641	1.796503	0.164042	0.091664	0.558784	0.295308	1.3
-44	21.83	20.78641	1.729117	0.16171	0.086972	0.537825	0.284231	1.3
-44	21.83	20.78641	1.751579	0.153181	0.083455	0.544811	0.287923	1.4
-44	21.83	20.80377	1.729117	0.150777	0.081092	0.537825	0.284231	1.4
-44	21.83	20.80377	1.684194	0.150759	0.078975	0.523852	0.276846	1.4
-44	21.83	20.80377	1.766554	0.140273	0.077075	0.549469	0.290385	1.5
-44	21.83	20.80377	1.80399	0.140707	0.078952	0.561113	0.296538	1.5
-44	21.83	20.80377	1.923786	0.134796	0.080659	0.598374	0.31623	1.5
-44	21.83	20.82113	1.983684	0.137029	0.084548	0.617005	0.326076	1.5
-44	21.83	20.82113	2.006146	0.138944	0.0867	0.623991	0.329768	1.5
-44	21.83	20.82113	1.991171	0.140938	0.087288	0.619334	0.327307	1.5
-44	21.83	20.82113	1.938761	0.1455	0.087741	0.603032	0.318692	1.4
-44	21.83	20.82113	1.916299	0.149426	0.089064	0.596046	0.315	1.4
-44	21.83	20.82113	1.938761	0.151159	0.091154	0.603032	0.318692	1.4
-44	21.83	20.82113	1.961222	0.149573	0.091242	0.610019	0.322384	1.4
-44	21.83	20.82113	1.998659	0.148506	0.092321	0.621663	0.328538	1.4
-44	21.83	20.82113	2.036095	0.146752	0.092939	0.633307	0.334691	1.4
-44	21.83	20.82113	2.125942	0.145318	0.096092	0.661253	0.34946	1.4
-43	21.83	20.82113	2.305636	0.140605	0.100834	0.717145	0.378998	1.5
-43	21.83	20.82113	2.380509	0.141362	0.104669	0.740434	0.391306	1.5
-43	21.83	20.82113	2.260713	0.151682	0.106658	0.703172	0.371614	1.4
-43	21.83	20.82113	2.253225	0.152971	0.107209	0.700843	0.370383	1.4
-43	21.83	20.82113	2.260713	0.152095	0.106949	0.703172	0.371614	1.4
-43	21.83	20.82113	2.223276	0.150616	0.104155	0.691528	0.36546	1.4
-44	21.83	20.82113	2.223276	0.150944	0.104382	0.691528	0.36546	1.4
-44	21.83	20.82113	2.095993	0.157125	0.102436	0.651937	0.344537	1.3
-44	21.83	20.82113	2.006146	0.160759	0.100312	0.623992	0.329768	1.3
-44	21.83	20.82113	1.953735	0.161503	0.098143	0.60769	0.321153	1.3
-44	21.83	20.82113	1.916299	0.158873	0.094695	0.596045	0.315	1.3
-44	21.83	20.82113	1.878862	0.155697	0.09099	0.584402	0.308846	1.3
-2	32.54	20.30021	56.45348	4.989036	87.60394	17.55929	16.53888	0.1
-2	32.54	20.30021	64.59961	4.089762	82.17586	20.09307	18.92541	0.1
-3	32.54	20.30021	78.49596	2.736511	66.81295	24.41538	22.99655	0.1
-3	32.54	20.30021	80.65229	2.008781	50.39245	25.08609	23.62828	0.2
-3	32.54	20.30021	78.61575	1.52759	37.35362	24.45265	23.03164	0.2
-4	32.54	20.30021	79.57412	1.385671	34.29639	24.75074	23.31241	0.3

-4	32.54	20.30021	80.65229	1.101457	27.63126	25.0861	23.62828	0.3
-4	32.54	20.30021	80.65229	0.895762	22.47115	25.08609	23.62828	0.4
-4	32.54	20.30021	83.04821	0.696949	18.0031	25.83132	24.3302	0.5
-5	32.54	20.30021	84.36597	0.56521	14.83179	26.24119	24.71626	0.6
-5	32.54	20.30021	84.48576	0.474154	12.46002	26.27845	24.75135	0.7
-5	32.54	20.30021	83.88678	0.350074	9.134182	26.09214	24.57587	1.0
-5	32.54	20.30021	85.08474	0.306966	8.123769	26.46475	24.92683	1.1
-6	32.54	20.30021	81.25127	0.291762	7.373532	25.2724	23.80376	1.2
-6	32.54	20.30021	80.89188	0.273341	6.877423	25.16061	23.69847	1.3
-6	32.54	20.30021	80.89188	0.258793	6.511393	25.16061	23.69847	1.4
-7	32.54	20.30021	80.89188	0.248076	6.24173	25.16061	23.69847	1.4
-7	32.54	20.30021	79.09494	0.246141	6.055487	24.6017	23.17203	1.4
-7	32.54	20.30021	75.86044	0.252847	5.966076	23.59562	22.22444	1.4
-7	32.54	20.28284	73.82391	0.25351	5.821148	22.96219	21.6278	1.4
-8	32.54	20.28284	72.50615	0.245945	5.546634	22.55232	21.24175	1.4
-8	32.54	20.28284	70.94881	0.233608	5.155229	22.06791	20.7855	1.5
-8	32.54	20.28284	64.959	0.23503	4.748751	20.20486	19.0307	1.5
-8	32.54	20.28284	59.44838	0.238272	4.405851	18.49082	17.41628	1.5
-9	32.54	20.28284	57.41184	0.231152	4.12776	17.85738	16.81965	1.5
-9	32.54	20.28284	59.20879	0.211528	3.895562	18.4163	17.34609	1.7
-9	32.54	20.28284	65.19859	0.180727	3.665028	20.27937	19.10089	1.9
-9	32.54	20.28284	70.11023	0.158136	3.448482	21.80709	20.53983	2.2
-10	32.54	20.28284	70.34982	0.149671	3.275037	21.88162	20.61002	2.3
-10	32.54	20.28284	69.39146	0.146304	3.157754	21.58351	20.32925	2.4
-10	32.54	20.28284	67.83411	0.145472	3.069329	21.09912	19.873	2.4
-10	32.54	20.28284	67.11533	0.144262	3.011558	20.87556	19.66243	2.4
-11	32.54	20.28284	65.55798	0.146498	2.987259	20.39115	19.20618	2.4
-11	32.54	20.28284	63.28185	0.152393	2.999581	19.6832	18.53935	2.3
-11	32.54	20.28284	61.7245	0.156712	3.008687	19.19879	18.0831	2.2
-12	32.54	20.28284	60.64634	0.158985	2.999001	18.86343	17.76724	2.2
-12	32.54	20.28284	59.08899	0.161347	2.965402	18.37904	17.31099	2.2
-12	32.54	20.28284	56.93266	0.164263	2.908828	17.70834	16.67926	2.1
-13	32.54	20.28284	54.65653	0.167795	2.85258	17.00037	16.01244	2.1
-13	32.54	20.28284	51.90122	0.17383	2.806206	16.14336	15.20523	2.0
-13	32.54	20.28284	48.90632	0.182355	2.773952	15.21183	14.32783	1.9
-13	32.54	20.28284	45.55203	0.192096	2.721708	14.1685	13.34514	1.8
-14	32.54	20.28284	43.75509	0.195502	2.660697	13.60959	12.8187	1.8
-14	32.54	20.28284	42.79672	0.194841	2.593617	13.31149	12.53793	1.8
-14	32.54	20.28284	42.79672	0.188704	2.511933	13.31149	12.53793	1.9
-14	32.54	20.28284	42.55713	0.182072	2.410074	13.23697	12.46774	1.9
-15	32.54	20.28284	41.35917	0.178818	2.300384	12.86436	12.11678	2.0
-15	32.54	20.28284	39.56223	0.179896	2.213699	12.30544	11.59034	1.9
-15	32.54	20.28284	39.44243	0.174177	2.136836	12.26817	11.55524	2.0
-15	32.54	20.28284	39.68202	0.1677	2.069871	12.34269	11.62543	2.1
-16	32.54	20.28284	40.64039	0.160599	2.030094	12.64079	11.9062	2.2
-16	32.54	20.28284	43.3957	0.148141	1.999575	13.4978	12.71341	2.4
-16	32.54	20.28284	43.99468	0.143733	1.966856	13.68411	12.88889	2.4
-17	32.54	20.28284	43.5155	0.143456	1.941688	13.53506	12.74851	2.4
-17	32.54	20.28284	42.79672	0.143548	1.910839	13.3115	12.53793	2.4
-17	32.54	20.28284	42.19774	0.142457	1.869775	13.12519	12.36245	2.5
-18	32.54	20.28284	41.35917	0.142858	1.837769	12.86435	12.11678	2.5
-18	32.54	20.28284	40.16121	0.145908	1.822647	12.49175	11.76582	2.4
-18	32.54	20.28284	39.32263	0.148853	1.82061	12.23091	11.52014	2.4
-18	32.54	20.28284	37.88508	0.155185	1.828669	11.78378	11.09899	2.3
-19	32.54	20.28284	34.53079	0.170609	1.832419	10.74046	10.1163	2.1
-19	32.54	20.28284	32.13486	0.184028	1.8394	9.995228	9.414382	1.9
-19	32.54	20.28284	30.33792	0.195438	1.844217	9.436306	8.887942	1.8
-19	32.54	20.28284	29.25976	0.202751	1.845223	9.100955	8.572079	1.7
-20	32.54	20.28284	28.66078	0.206629	1.842025	8.914649	8.396599	1.7
-20	32.54	20.28284	29.02017	0.199414	1.799996	9.026433	8.501887	1.8
-20	32.54	20.28284	29.25976	0.190513	1.733851	9.100954	8.572079	1.8
-20	32.54	20.28284	28.78057	0.185465	1.660261	8.951908	8.431693	1.9
-21	32.54	20.28284	27.82221	0.183508	1.588042	8.653821	8.150927	1.9
-21	32.54	20.28284	27.10343	0.18027	1.519718	8.430254	7.94035	1.9
-21	32.54	20.28284	26.74404	0.175954	1.463667	8.318469	7.835061	2.0
-22	32.54	20.28284	26.38465	0.173486	1.42374	8.206681	7.729773	2.0
-22	32.54	20.28284	26.14506	0.171919	1.398076	8.13216	7.659581	2.0
-22	32.54	20.28284	25.66588	0.172675	1.378486	7.983116	7.519198	2.0
-23	32.54	20.28284	25.18669	0.173652	1.360398	7.834071	7.378813	2.0
-23	32.54	20.28284	25.0669	0.172922	1.34824	7.796808	7.343718	2.0
-23	32.54	20.28284	25.0669	0.169746	1.323479	7.796807	7.343718	2.1

-23	32.54	20.28284	24.9471	0.167325	1.298366	7.759548	7.308621	2.1
-24	32.54	20.28284	24.34812	0.167259	1.266695	7.573238	7.133141	2.1
-24	32.54	20.28284	23.72668	0.169263	1.249153	7.379945	6.951081	2.1
-24	32.54	20.26548	23.06031	0.172305	1.235887	7.172678	6.755858	2.0
-25	32.54	20.28284	22.35651	0.176708	1.228784	6.953767	6.54967	2.0
-25	32.54	20.28284	21.6003	0.182467	1.225918	6.718556	6.328127	1.9
-25	32.54	20.26548	20.69434	0.190904	1.228803	6.436767	6.062712	1.8
-25	32.54	20.26548	20.14028	0.196183	1.228973	6.264433	5.900392	1.8
-26	32.54	20.26548	20.12531	0.194877	1.219886	6.259776	5.896007	1.8
-26	32.54	20.26548	20.14777	0.191058	1.197316	6.266762	5.902587	1.8
-26	32.54	20.26548	19.75094	0.190005	1.167262	6.143335	5.786329	1.8
-27	32.54	20.26548	19.35412	0.188337	1.133773	6.019906	5.670075	1.9
-27	32.54	20.26548	18.92735	0.186295	1.09675	5.887162	5.545047	1.9
-27	32.54	20.26548	18.21606	0.187648	1.063199	5.665921	5.336664	1.9
-28	32.54	20.26548	17.44487	0.191078	1.036798	5.426051	5.110732	1.8
-28	32.54	20.26548	17.07799	0.192212	1.02102	5.311938	5.003249	1.8
-28	32.54	20.26548	16.83091	0.192645	1.008512	5.235089	4.930864	1.8
-28	32.54	20.26548	16.62127	0.193116	0.998389	5.169881	4.869446	1.8
-29	32.54	20.26548	16.49399	0.194718	0.998959	5.130291	4.832158	1.8
-29	32.54	20.26548	16.26188	0.19789	1.000946	5.058096	4.764158	1.8
-29	32.54	20.26548	15.76024	0.202785	0.994067	4.902064	4.617195	1.7
-30	32.54	20.24812	15.52813	0.202527	0.97818	4.829871	4.549195	1.7
-30	32.54	20.26548	15.39336	0.200235	0.958717	4.787951	4.509712	1.7
-30	32.54	20.26548	14.93664	0.203058	0.943383	4.645893	4.375909	1.7
-31	32.54	20.24812	14.53233	0.206835	0.934922	4.520136	4.257461	1.7
-31	32.54	20.26548	14.06812	0.213861	0.935801	4.375746	4.121463	1.6
-31	32.54	20.24812	13.7237	0.221338	0.944806	4.26862	4.020561	1.6
-32	32.54	20.26548	13.50657	0.226695	0.952366	4.201084	3.956949	1.5
-32	32.54	20.26548	13.28944	0.230481	0.952706	4.133546	3.893338	1.5
-32	32.54	20.26548	13.16216	0.230978	0.945615	4.093957	3.856049	1.5
-32	32.54	20.26548	12.93754	0.232629	0.93612	4.024093	3.790243	1.5
-33	32.54	20.26548	12.62308	0.235624	0.925127	3.926282	3.698118	1.5
-33	32.54	20.26548	12.36102	0.238154	0.915648	3.844773	3.621343	1.5
-33	32.54	20.26548	12.00163	0.243265	0.908104	3.732988	3.516055	1.4
-34	32.54	20.26548	11.67968	0.24792	0.900656	3.632849	3.421735	1.4
-34	32.54	20.26548	11.4326	0.251186	0.893217	3.555997	3.349349	1.4
-34	32.54	20.26548	11.21547	0.254435	0.887587	3.48846	3.285738	1.4
-35	32.54	20.26548	10.93096	0.259432	0.882059	3.399966	3.202386	1.3
-35	32.54	20.28284	10.75126	0.263551	0.881335	3.344074	3.14974	1.3
-35	32.54	20.28284	10.51167	0.27032	0.883824	3.26955	3.079549	1.3
-35	32.54	20.28284	10.2571	0.277538	0.885448	3.19037	3.004969	1.3
-36	32.54	20.30021	10.09238	0.281746	0.884437	3.139135	2.956712	1.2
-36	32.54	20.30021	9.837816	0.287725	0.880426	3.059954	2.882133	1.2
-36	32.54	20.31757	9.718019	0.288467	0.871947	3.022693	2.847037	1.2
-37	32.54	20.33494	9.448479	0.292829	0.860583	2.938856	2.768071	1.2
-37	32.54	20.33494	9.313708	0.292127	0.846272	2.896935	2.728588	1.2
-37	32.54	20.3523	9.006731	0.297322	0.832934	2.801454	2.638655	1.2
-38	32.54	20.36967	8.804575	0.299866	0.821206	2.738575	2.57943	1.2
-38	32.54	20.38703	8.520059	0.306333	0.811807	2.65008	2.496077	1.1
-38	32.54	20.38703	8.302929	0.310899	0.80291	2.582543	2.432466	1.1
-38	32.54	20.38703	8.16067	0.312878	0.794177	2.538295	2.390789	1.1
-39	32.54	20.40439	7.921078	0.317924	0.783292	2.463772	2.320597	1.1
-39	32.54	20.40439	7.823744	0.316654	0.770577	2.433498	2.292081	1.1
-39	32.54	20.42176	7.591639	0.32079	0.757483	2.361303	2.224083	1.1
-40	32.54	20.43912	7.426919	0.322092	0.744054	2.31007	2.175826	1.1
-40	32.54	20.43912	7.2622	0.321247	0.725644	2.258834	2.127569	1.1
-40	32.54	20.45649	7.052557	0.321817	0.705947	2.193627	2.066151	1.1
-41	32.54	20.47385	6.820452	0.323434	0.686144	2.121434	1.998152	1.1
-41	32.54	20.47385	6.573372	0.325882	0.666292	2.044582	1.925766	1.1
-41	32.54	20.47385	6.461063	0.321283	0.645666	2.00965	1.892864	1.1
-42	32.54	20.49121	6.213984	0.323905	0.626043	1.932798	1.820478	1.1
-42	32.54	20.49121	6.041777	0.324667	0.610125	1.879234	1.770028	1.1
-42	32.54	20.49121	5.899519	0.322667	0.59209	1.834986	1.728351	1.1
-42	32.54	20.50858	5.689876	0.325408	0.5759	1.769779	1.666933	1.1
-43	32.54	20.50858	5.525156	0.325539	0.559453	1.718544	1.618676	1.1
-43	32.54	20.52594	5.450284	0.316953	0.537317	1.695257	1.596741	1.1
-43	32.54	20.52594	5.285564	0.310543	0.51054	1.644022	1.548484	1.1
-44	32.54	20.54331	5.060946	0.308239	0.485217	1.574156	1.482679	1.1
-44	32.54	20.56067	4.80638	0.309068	0.46205	1.494977	1.4081	1.1
-44	32.54	20.57804	4.521864	0.312667	0.43976	1.406481	1.324747	1.1
-45	32.54	20.5954	4.214887	0.319361	0.418682	1.310999	1.234813	1.1

-45	32.54	20.61276	3.892934	0.327938	0.397086	1.210858	1.140492	1.1
-45	32.54	20.63013	3.608419	0.335739	0.376821	1.122363	1.05714	1.0
-45	32.54	20.64749	3.391288	0.339271	0.357872	1.054826	0.993528	1.0
-46	32.54	20.66486	3.166671	0.34355	0.338384	0.984961	0.927723	1.0
-46	32.54	20.68222	2.837231	0.361162	0.318723	0.882492	0.831209	1.0
-46	32.54	20.69958	2.620101	0.366523	0.2987	0.814956	0.767597	1.0
-47	32.54	20.69958	2.417945	0.37225	0.27996	0.752078	0.708373	0.9
-47	32.54	20.71695	2.260713	0.371671	0.261349	0.703172	0.662309	0.9
-47	32.54	20.73431	2.110967	0.369306	0.242485	0.656595	0.618439	0.9
-47	32.54	20.73431	1.946248	0.372305	0.225379	0.605361	0.570182	0.9
-48	32.54	20.75168	1.841426	0.364958	0.209032	0.572757	0.539473	1.0
-48	32.54	20.75168	1.72163	0.362149	0.193929	0.535496	0.504377	1.0
-48	32.54	20.76904	1.497012	0.381891	0.17782	0.465631	0.438572	0.9
-49	32.54	20.76904	1.414653	0.370593	0.163066	0.440014	0.414443	0.9
-49	32.54	20.76904	1.302344	0.376111	0.152355	0.405081	0.381541	0.9
-49	32.54	20.78641	1.249933	0.363031	0.141139	0.388779	0.366186	1.0
-49	32.54	20.78641	1.070239	0.401218	0.13356	0.332887	0.313542	0.9
-50	32.54	20.78641	0.995366	0.421347	0.130448	0.309599	0.291607	0.8
-50	32.54	20.78641	0.965417	0.405584	0.12179	0.300283	0.282833	0.9
-3	57.58	20.05711	19.09955	0.764888	4.543988	5.940724	30.83253	0.3
-3	57.58	20.05711	18.5455	0.562956	3.24735	5.768391	29.93812	0.4
-3	57.58	20.05711	17.22025	0.457208	2.448892	5.356186	27.79876	0.5
-4	57.58	20.03975	15.56557	0.393088	1.903142	4.841515	25.1276	0.6
-4	57.58	20.05711	13.8435	0.349158	1.503433	4.305882	22.34765	0.7
-4	57.58	20.05711	13.76863	0.279105	1.195295	4.282594	22.22679	0.9
-5	57.58	20.03975	13.3119	0.242444	1.003849	4.140534	21.48949	1.0
-5	57.58	20.03975	13.62637	0.204965	0.868714	4.238347	21.99714	1.2
-5	57.58	20.03975	14.89171	0.164984	0.764192	4.631919	24.03978	1.5
-6	57.58	20.03975	15.73777	0.140908	0.689755	4.895077	25.40558	1.7
-6	57.58	20.03975	15.31849	0.132588	0.631737	4.764661	24.72874	1.8
-6	57.58	20.03975	14.8393	0.126837	0.585429	4.615617	23.95518	1.9
-6	57.58	20.03975	14.45745	0.121946	0.548371	4.496845	23.33876	2.0
-7	57.58	20.03975	14.03068	0.119147	0.519969	4.3641	22.64982	2.0
-7	57.58	20.03975	13.34934	0.119725	0.49712	4.152179	21.54993	2.0
-7	57.58	20.03975	12.71292	0.120461	0.476331	3.954227	20.52255	2.0
-8	57.58	20.03975	11.91927	0.123068	0.456259	3.707369	19.24136	2.0
-8	57.58	20.03975	11.22296	0.12578	0.43907	3.490789	18.1173	1.9
-8	57.58	20.03975	11.2604	0.119906	0.419964	3.502434	18.17774	2.0
-9	57.58	20.03975	11.10316	0.116067	0.400841	3.453527	17.9239	2.1
-9	57.58	20.03975	11.14809	0.110793	0.384176	3.467502	17.99643	2.2
-9	57.58	20.03975	10.8486	0.109487	0.369446	3.374346	17.51297	2.2
-10	57.58	20.03975	10.87106	0.105449	0.35656	3.381335	17.54922	2.3
-10	57.58	20.03975	10.90101	0.101837	0.345294	3.390648	17.59757	2.4
-10	57.58	20.03975	10.75126	0.100366	0.335631	3.344071	17.35583	2.4
-10	57.58	20.03975	10.54162	0.10033	0.328969	3.278866	17.01741	2.4
-11	57.58	20.03975	10.34695	0.101151	0.325536	3.218317	16.70315	2.4
-11	57.58	20.03975	10.09238	0.102836	0.322815	3.139136	16.29219	2.4
-11	57.58	20.03975	9.815354	0.104901	0.320259	3.052967	15.84499	2.3
-11	57.58	20.03975	9.440991	0.107911	0.316884	2.936527	15.24065	2.2
-12	57.58	20.03975	9.276272	0.107924	0.311392	2.885291	14.97475	2.2
-12	57.58	20.03975	9.171451	0.107418	0.30643	2.852689	14.80553	2.3
-12	57.58	20.03975	9.014217	0.107344	0.300968	2.803783	14.55171	2.3
-12	57.58	20.03975	8.924371	0.10649	0.295598	2.775837	14.40667	2.3
-13	57.58	20.03975	8.752164	0.106682	0.290417	2.722273	14.12868	2.3
-13	57.58	20.03975	8.430212	0.108568	0.28468	2.622133	13.60895	2.2
-13	57.58	20.03975	7.846206	0.114403	0.2792	2.440485	12.66618	2.1
-14	57.58	20.03975	7.636563	0.115889	0.275268	2.375276	12.32775	2.1
-14	57.58	20.03975	7.359534	0.118942	0.272271	2.28911	11.88054	2.0
-14	57.58	20.03975	7.337072	0.117785	0.2688	2.282123	11.84428	2.1
-14	57.58	20.03975	7.434407	0.114619	0.265044	2.312398	12.00141	2.1
-15	57.58	20.03975	7.2622	0.115327	0.260505	2.258836	11.72342	2.1
-15	57.58	20.03975	7.134916	0.115648	0.256651	2.219244	11.51794	2.1
-15	57.58	20.03975	7.127429	0.113655	0.251964	2.216915	11.50586	2.1
-16	57.58	20.03975	6.895324	0.11516	0.246987	2.144722	11.13117	2.1
-16	57.58	20.03975	6.760554	0.115505	0.242885	2.102804	10.91361	2.1
-16	57.58	20.03975	6.753067	0.114502	0.240508	2.100474	10.90152	2.1
-16	57.58	20.03975	6.588347	0.116278	0.238282	2.04924	10.63561	2.1
-17	57.58	20.03975	6.528449	0.116452	0.236467	2.030609	10.53892	2.1
-17	57.58	20.03975	6.386191	0.118216	0.23482	1.986361	10.30927	2.1
-17	57.58	20.03975	6.281369	0.119017	0.23253	1.953757	10.14005	2.0
-17	57.58	20.03975	6.146599	0.12051	0.230396	1.911839	9.922495	2.0

-17	57.58	20.03975	6.064239	0.12114	0.228497	1.886221	9.78954	2.0
-18	57.58	20.03975	5.981879	0.12198	0.226956	1.860604	9.656586	2.0
-18	57.58	20.03975	6.004341	0.120875	0.225745	1.86759	9.692847	2.0
-18	57.58	20.03975	5.877058	0.123012	0.224865	1.827999	9.487373	2.0
-18	57.58	20.05711	5.802185	0.12422	0.224181	1.804711	9.366505	2.0
-19	57.58	20.05711	5.734799	0.125134	0.223207	1.783753	9.257723	1.9
-19	57.58	20.05711	5.689876	0.12542	0.221965	1.769779	9.185204	1.9
-19	57.58	20.05711	5.48772	0.129657	0.221312	1.7069	8.858862	1.9
-20	57.58	20.05711	5.35295	0.131593	0.2191	1.664981	8.641302	1.8
-20	57.58	20.07447	5.165768	0.134232	0.215679	1.606761	8.339133	1.8
-20	57.58	20.09184	5.090896	0.134016	0.21221	1.583472	8.218267	1.8
-21	57.58	20.1092	4.911201	0.135838	0.207503	1.52758	7.928184	1.8
-21	57.58	20.12657	4.80638	0.135695	0.202861	1.494977	7.758971	1.8
-21	57.58	20.14393	4.611711	0.137452	0.197165	1.434427	7.444715	1.8
-21	57.58	20.16129	4.536839	0.136013	0.191933	1.411138	7.323849	1.8
-22	57.58	20.17866	4.432017	0.135999	0.18748	1.378534	7.154634	1.8
-22	57.58	20.19602	4.357144	0.134777	0.182656	1.355246	7.033766	1.8
-22	57.58	20.21339	4.244835	0.135427	0.178806	1.320313	6.852465	1.8
-23	57.58	20.23075	4.12504	0.135502	0.173857	1.283053	6.659079	1.8
-23	57.58	20.24812	4.132526	0.131753	0.169353	1.285381	6.671164	1.8
-23	57.58	20.26548	3.96032	0.133512	0.164462	1.231818	6.39317	1.8
-24	57.58	20.28284	3.967807	0.128844	0.159013	1.234147	6.405257	1.9
-24	57.58	20.30021	3.788113	0.129364	0.152423	1.178255	6.115175	1.9
-24	57.58	20.31757	3.773138	0.124656	0.146296	1.173597	6.091001	1.9
-24	57.58	20.33494	3.750677	0.119937	0.139919	1.16661	6.054742	2.0
-25	57.58	20.3523	3.548521	0.121806	0.134442	1.103732	5.728401	2.0
-25	57.58	20.3523	3.593444	0.115577	0.129181	1.117705	5.80092	2.1
-25	57.58	20.36967	3.436212	0.117002	0.125051	1.068799	5.547099	2.1
-26	57.58	20.38703	3.436212	0.113423	0.121227	1.0688	5.547099	2.1
-26	57.58	20.40439	3.308928	0.114507	0.117852	1.029209	5.341624	2.1
-26	57.58	20.40439	3.301441	0.112348	0.115368	1.02688	5.329538	2.2
-26	57.58	20.42176	3.234056	0.111677	0.112338	1.005921	5.220758	2.2
-27	57.58	20.43912	3.256518	0.109088	0.110496	1.012907	5.257018	2.2
-27	57.58	20.43912	3.061849	0.113518	0.10811	0.952357	4.942763	2.1
-27	57.58	20.45649	3.046875	0.111064	0.105255	0.9477	4.91859	2.2
-27	57.58	20.45649	2.979489	0.112035	0.103827	0.926741	4.809808	2.2
-28	57.58	20.45649	2.972002	0.110066	0.101747	0.924412	4.797722	2.2
-28	57.58	20.47385	2.86718	0.111879	0.099774	0.891808	4.628507	2.2
-28	57.58	20.47385	2.859693	0.109552	0.097444	0.889479	4.616421	2.2
-28	57.58	20.47385	2.73241	0.112354	0.095488	0.849889	4.410947	2.2
-28	57.58	20.47385	2.73241	0.110276	0.093722	0.849889	4.410947	2.2
-29	57.58	20.49121	2.754871	0.108166	0.092685	0.856875	4.447206	2.2
-29	57.58	20.49121	2.582664	0.113109	0.090862	0.803312	4.169211	2.1
-29	57.58	20.49121	2.597639	0.111176	0.089826	0.80797	4.193386	2.2
-30	57.58	20.50858	2.605126	0.109467	0.088701	0.810298	4.205472	2.2
-30	57.58	20.50858	2.515279	0.112117	0.087715	0.782353	4.060431	2.2
-30	57.58	20.50858	2.43292	0.113803	0.086119	0.756735	3.927479	2.1
-31	57.58	20.50858	2.410458	0.113434	0.085047	0.749749	3.891218	2.1
-31	57.58	20.52594	2.387996	0.112834	0.083809	0.742763	3.854957	2.1
-31	57.58	20.52594	2.40297	0.110829	0.082835	0.74742	3.87913	2.2
-31	57.58	20.54331	2.305636	0.114251	0.081935	0.717145	3.722003	2.1
-32	57.58	20.54331	2.200814	0.117646	0.080533	0.684541	3.552788	2.1
-32	57.58	20.54331	2.193327	0.116399	0.079409	0.682212	3.540702	2.1
-32	57.58	20.54331	2.148404	0.117908	0.078791	0.668239	3.468183	2.1
-32	57.58	20.56067	2.10348	0.11804	0.07723	0.654266	3.395661	2.1
-33	57.58	20.56067	2.043582	0.119685	0.076076	0.635636	3.298968	2.0
-33	57.58	20.56067	2.036095	0.118511	0.075054	0.633307	3.286881	2.0
-33	57.58	20.57804	2.02112	0.118067	0.074223	0.628649	3.262707	2.1
-33	57.58	20.57804	2.013633	0.117468	0.073572	0.62632	3.250621	2.1
-33	57.58	20.57804	2.006146	0.11678	0.07287	0.623992	3.238535	2.1
-33	57.58	20.57804	1.938761	0.118638	0.071543	0.603032	3.129755	2.0
-34	57.58	20.57804	1.961222	0.115894	0.070697	0.610019	3.166013	2.1
-34	57.58	20.57804	1.961222	0.114053	0.069574	0.610018	3.166013	2.1
-34	57.58	20.57804	1.833939	0.120392	0.068675	0.570428	2.96054	2.0
-35	57.58	20.57804	1.759066	0.125739	0.068797	0.54714	2.839672	1.9
-35	57.58	20.57804	1.811477	0.121464	0.068438	0.563442	2.924279	2.0
-35	57.58	20.57804	1.699168	0.129929	0.068668	0.528509	2.742978	1.9
-36	57.58	20.5954	1.669219	0.13197	0.068518	0.519194	2.694631	1.8
-36	57.58	20.5954	1.579372	0.141189	0.069359	0.491248	2.54959	1.7
-36	57.58	20.5954	1.511987	0.147633	0.06943	0.470288	2.44081	1.6
-37	57.58	20.61276	1.631783	0.137078	0.069574	0.50755	2.634198	1.8

-37	57.58	20.61276	1.564398	0.142281	0.069233	0.48659	2.525418	1.7
-37	57.58	20.63013	1.601834	0.136926	0.068221	0.498234	2.585851	1.8
-37	57.58	20.64749	1.541936	0.142006	0.068107	0.479604	2.489157	1.7
-37	57.58	20.66486	1.474551	0.148718	0.068209	0.458644	2.380377	1.6
-38	57.58	20.66486	1.497012	0.147045	0.068469	0.465631	2.416636	1.6
-38	57.58	20.68222	1.42214	0.157274	0.069569	0.442342	2.29577	1.5
-38	57.58	20.69958	1.497012	0.150858	0.070244	0.465631	2.416636	1.6
-38	57.58	20.69958	1.42214	0.161188	0.0713	0.442342	2.29577	1.5
-38	57.58	20.69958	1.474551	0.158121	0.072521	0.458644	2.380377	1.5
-39	57.58	20.71695	1.377216	0.169567	0.072637	0.428369	2.223249	1.4
-39	57.58	20.71695	1.392191	0.167174	0.072391	0.433027	2.247423	1.5
-39	57.58	20.73431	1.302344	0.176554	0.071519	0.405081	2.102382	1.4
-40	57.58	20.73431	1.317318	0.171396	0.070227	0.409739	2.126555	1.4
-40	57.58	20.75168	1.167573	0.190995	0.069362	0.363162	1.884821	1.3
-40	57.58	20.76904	1.160086	0.190828	0.068857	0.360833	1.872734	1.3
-40	57.58	20.78641	1.010341	0.220349	0.069246	0.314256	1.631	1.1
-41	57.58	20.78641	1.010341	0.219616	0.069016	0.314256	1.631	1.1
-41	57.58	20.80377	1.002853	0.219767	0.068551	0.311927	1.618912	1.1
-41	57.58	20.82113	0.905519	0.241515	0.068023	0.281653	1.461785	1.0
-41	57.58	20.82113	0.972904	0.22149	0.067025	0.302612	1.570566	1.1
-42	57.58	20.8385	0.950443	0.218239	0.064517	0.295626	1.534306	1.1
-42	57.58	20.8385	1.047777	0.19477	0.063476	0.325901	1.691433	1.2
-42	57.58	20.85586	1.055264	0.186041	0.061064	0.328229	1.70352	1.3
-42	57.58	20.87323	1.017828	0.185205	0.058633	0.316585	1.643086	1.3
-42	57.58	20.89059	1.107675	0.198251	0.068304	0.344531	1.788127	1.2
-42	57.58	20.90796	1.010341	0.183255	0.057589	0.314256	1.631	1.3
-42	57.58	20.90796	1.04029	0.178783	0.057849	0.323572	1.679347	1.4
-42	57.58	20.92532	1.12265	0.166761	0.058231	0.349189	1.812301	1.5
-43	57.58	20.92532	0.987879	0.193659	0.059505	0.30727	1.594739	1.3
-43	57.58	20.94268	1.017828	0.193571	0.061282	0.316585	1.643086	1.3
-43	57.58	20.96005	1.055264	0.189296	0.062132	0.328229	1.70352	1.3
-43	57.58	20.99478	0.935468	0.212694	0.061887	0.290968	1.510132	1.1
-44	57.58	21.01214	0.965417	0.203826	0.061205	0.300283	1.558479	1.2
-44	57.58	21.06423	1.002853	0.194421	0.060645	0.311928	1.618912	1.2
-44	57.58	21.13369	0.972904	0.196169	0.059363	0.302612	1.570566	1.2
-44	57.58	21.22051	0.87557	0.213596	0.05817	0.272337	1.413439	1.1
-45	57.58	21.30733	0.905519	0.201935	0.056875	0.281653	1.461785	1.2
-45	57.58	21.41152	0.913006	0.194084	0.055116	0.283982	1.473872	1.2
-45	57.58	21.5157	0.898032	0.191773	0.053567	0.279324	1.449699	1.3
-46	57.58	21.65462	0.770749	0.219143	0.052536	0.239734	1.244224	1.1
-46	57.58	21.7588	0.800698	0.203976	0.0508	0.249049	1.292571	1.2
-46	57.58	21.86299	0.800698	0.197015	0.049066	0.249049	1.292571	1.2
-47	57.58	21.96717	0.770749	0.195895	0.046963	0.239734	1.244224	1.2
-47	57.58	22.05399	0.748287	0.193447	0.045024	0.232747	1.207964	1.3
-47	57.58	22.12345	0.725825	0.193906	0.043776	0.225761	1.171704	1.3
-47	57.58	22.19291	0.703363	0.19551	0.042772	0.218774	1.135444	1.2
-48	57.58	22.22763	0.680901	0.198152	0.041966	0.211788	1.099184	1.2
-48	57.58	22.27973	0.673414	0.19877	0.041634	0.209459	1.087097	1.2
-48	57.58	22.29709	0.650952	0.205668	0.041642	0.202472	1.050837	1.2
-48	57.58	22.31446	0.650952	0.199631	0.04042	0.202472	1.050837	1.2
-49	57.58	22.33182	0.635978	0.199705	0.039504	0.197815	1.026663	1.2
-49	57.58	22.31446	0.688389	0.178268	0.03817	0.214116	1.11127	1.4
-49	57.58	22.31446	0.703363	0.170782	0.037363	0.218774	1.135444	1.4
-49	57.58	22.29709	0.628491	0.180399	0.035265	0.195486	1.014576	1.3
-50	57.58	22.27973	0.523669	0.206762	0.033678	0.162882	0.845362	1.2
-50	57.58	22.26236	0.516182	0.200333	0.032164	0.160553	0.833276	1.2
-50	57.58	22.245	0.441309	0.220764	0.030303	0.137265	0.712408	1.1
-51	57.58	22.245	0.351462	0.270221	0.02954	0.109319	0.567368	0.9
-51	57.58	22.22763	0.321513	0.289689	0.02897	0.100003	0.519021	0.8
-51	57.58	22.22763	0.41136	0.21823	0.027922	0.127949	0.664061	1.1
-52	57.58	22.21027	0.329	0.262522	0.026864	0.102332	0.531107	0.9
-52	57.58	22.21027	0.329	0.243384	0.024906	0.102332	0.531107	1.0
-52	57.58	22.19291	0.254128	0.288298	0.022788	0.079044	0.41024	0.8
-52	57.58	22.19291	0.381411	0.179111	0.021249	0.118634	0.615714	1.4
-52	57.58	22.19291	0.314026	0.202548	0.019784	0.097675	0.506934	1.2
-52	57.58	22.17554	0.306539	0.196617	0.018747	0.095346	0.494847	1.2
-52	57.58	22.17554	0.403873	0.145624	0.018293	0.125621	0.651975	1.7
-51	57.58	22.17554	0.418847	0.145125	0.018907	0.130278	0.676148	1.7
-51	57.58	22.17554	0.433822	0.144218	0.01946	0.134936	0.700322	1.7
-51	57.58	22.17554	0.456284	0.143896	0.020422	0.141922	0.736582	1.7
-50	57.58	22.17554	0.448797	0.156205	0.021805	0.139594	0.724495	1.6

-50	57.58	22.17554	0.538644	0.138902	0.023272	0.16754	0.869536	1.7
-50	57.58	22.17554	0.613516	0.126644	0.024167	0.190828	0.990403	1.9
-50	57.58	22.17554	0.583567	0.141593	0.025701	0.181513	0.942056	1.7
-50	57.58	22.17554	0.523669	0.160088	0.026075	0.162882	0.845362	1.5
-50	57.58	22.17554	0.523669	0.159989	0.026059	0.162882	0.845362	1.5
-50	57.58	22.17554	0.478746	0.174191	0.025939	0.148909	0.772842	1.4
-51	57.58	22.17554	0.403873	0.198087	0.024884	0.125621	0.651975	1.2
-51	57.58	22.17554	0.358949	0.213487	0.023835	0.111648	0.579454	1.1
-51	57.58	22.17554	0.448797	0.159473	0.022261	0.139594	0.724495	1.5
-52	57.58	22.17554	0.373924	0.18397	0.021397	0.116305	0.603628	1.3
-52	57.58	22.17554	0.343975	0.191494	0.020488	0.10699	0.555281	1.3
-52	57.58	22.17554	0.321513	0.18806	0.018807	0.100003	0.519021	1.3
-52	57.58	22.17554	0.329	0.177753	0.01819	0.102332	0.531107	1.4
-52	57.58	22.17554	0.329	0.173965	0.017802	0.102332	0.531107	1.4
-52	57.58	22.17554	0.306539	0.181705	0.017325	0.095346	0.494847	1.3
-52	57.58	22.17554	0.41136	0.135195	0.017298	0.127949	0.664061	1.8
-51	57.58	22.17554	0.396386	0.14051	0.017324	0.123292	0.639888	1.7
-51	57.58	22.17554	0.403873	0.146732	0.018433	0.125621	0.651975	1.7
-51	57.58	22.17554	0.396386	0.15345	0.018919	0.123292	0.639888	1.6
-51	57.58	22.17554	0.441309	0.147588	0.020259	0.137265	0.712408	1.6
-51	57.58	22.17554	0.538644	0.130884	0.021928	0.16754	0.869536	1.9
-50	57.58	22.17554	0.553618	0.143976	0.024792	0.172197	0.893709	1.7
-50	57.58	22.17554	0.516182	0.162352	0.026066	0.160553	0.833276	1.5
-50	57.58	22.17554	0.501207	0.172726	0.026927	0.155895	0.809102	1.4
-50	57.58	22.17554	0.501207	0.172725	0.026927	0.155896	0.809102	1.4
-51	57.58	22.17554	0.448797	0.202846	0.028316	0.139594	0.724495	1.2
-51	57.58	22.17554	0.388898	0.21976	0.026583	0.120963	0.627801	1.1
-51	57.58	22.17554	0.358949	0.231164	0.025809	0.111648	0.579454	1.0
-51	57.58	22.17554	0.433822	0.174239	0.023511	0.134936	0.700322	1.4
-52	57.58	22.17554	0.314026	0.237921	0.023239	0.097675	0.506934	1.0
-52	57.58	22.17554	0.269102	0.277549	0.023231	0.083702	0.434414	0.9
-52	57.58	22.17554	0.186743	0.384102	0.02231	0.058084	0.30146	0.6
-53	57.58	22.17554	0.254128	0.286165	0.02262	0.079044	0.41024	0.8
-53	57.58	22.17554	0.246641	0.286546	0.021982	0.076715	0.398153	0.8
-53	57.58	22.17554	0.201717	0.328556	0.020614	0.062742	0.325633	0.7
-53	57.58	22.17554	0.126844	0.489384	0.019308	0.039454	0.204766	0.5
-54	57.58	22.17554	0.216692	0.256058	0.017258	0.0674	0.349806	0.9
-54	57.58	22.17554	0.156793	0.32598	0.015898	0.048769	0.253113	0.7
-54	57.58	22.17554	0.179255	0.265372	0.014796	0.055756	0.289373	0.9
-55	57.58	22.17554	0.11187	0.406008	0.014127	0.034796	0.180592	0.6
-55	57.58	22.17554	0.074434	0.592142	0.013709	0.023152	0.120159	0.4
-55	57.58	22.17554	0.164281	0.255458	0.013053	0.051098	0.265199	0.9
-55	57.58	22.17554	0.11187	0.329914	0.01148	0.034796	0.180592	0.7
-3	72.24	20.82113	27.46282	0.666993	5.697475	8.542034	17.03597	0.3
-3	72.24	20.82113	25.42628	0.539665	4.267989	7.908592	15.77265	0.3
-4	72.24	20.82113	23.54698	0.419066	3.069262	7.324053	14.60686	0.4
-4	72.24	20.82113	22.19179	0.333994	2.305406	6.902533	13.7662	0.5
-5	72.24	20.82113	21.97466	0.258994	1.770227	6.835	13.63151	0.7
-5	72.24	20.82113	22.25169	0.207031	1.432898	6.921165	13.80336	0.8
-5	72.24	20.80377	22.66349	0.170745	1.203624	7.049254	14.05881	1.0
-5	72.24	20.80377	23.34483	0.146838	1.066218	7.261175	14.48146	1.2
-6	72.24	20.80377	23.99622	0.130647	0.975124	7.463783	14.88554	1.3
-6	72.24	20.80377	24.01119	0.120096	0.896927	7.468445	14.89483	1.4
-6	72.24	20.80377	23.44216	0.112808	0.822537	7.291452	14.54184	1.5
-7	72.24	20.80377	22.58113	0.107919	0.757982	7.023637	14.00772	1.6
-7	72.24	20.80377	21.75753	0.103392	0.699703	6.767465	13.49682	1.7
-8	72.24	20.80377	19.5413	0.10699	0.650298	6.078123	12.12203	1.6
-8	72.24	20.80377	17.72938	0.110897	0.611546	5.514548	10.99804	1.5
-8	72.24	20.80377	16.50147	0.114389	0.587114	5.132616	10.23633	1.5
-8	72.24	20.82113	15.81265	0.116794	0.574436	4.918365	9.809038	1.5
-9	72.24	20.82113	15.29603	0.118824	0.565325	4.757676	9.488564	1.4
-9	72.24	20.82113	15.48321	0.114182	0.549888	4.815895	9.604677	1.5
-9	72.24	20.82113	16.75604	0.100996	0.526369	5.211798	10.39425	1.7
-10	72.24	20.82113	17.74436	0.091881	0.507112	5.519205	11.00733	1.9
-10	72.24	20.82113	18.53052	0.105545	0.608334	5.763733	11.49501	1.6
-10	72.24	20.82113	20.11782	0.097956	0.612953	6.257449	12.47966	1.7
-10	72.24	20.8385	20.51464	0.097048	0.619252	6.380874	12.72582	1.8
-11	72.24	20.8385	20.29751	0.082948	0.523678	6.313338	12.59112	2.1
-11	72.24	20.8385	19.67607	0.087558	0.535856	6.120046	12.20563	2.0
-11	72.24	20.8385	19.15196	0.091731	0.546441	5.957027	11.88051	1.9
-12	72.24	20.8385	18.57545	0.096337	0.556609	5.777706	11.52288	1.8

-12	72.24	20.8385	18.29093	0.099024	0.563371	5.689212	11.34639	1.7
-12	72.24	20.8385	18.04385	0.100739	0.565381	5.612354	11.19312	1.7
-13	72.24	20.8385	17.49728	0.103287	0.562123	5.442353	10.85406	1.7
-13	72.24	20.8385	16.63625	0.107544	0.556493	5.174541	10.31994	1.6
-13	72.24	20.8385	15.76024	0.111566	0.546902	4.902063	9.776527	1.5
-14	72.24	20.8385	14.85428	0.116458	0.538068	4.620276	9.214534	1.5
-14	72.24	20.8385	14.44248	0.11815	0.530754	4.492189	8.959082	1.4
-14	72.24	20.8385	14.22535	0.118435	0.524032	4.424653	8.824391	1.4
-15	72.24	20.8385	14.16545	0.116651	0.513967	4.406022	8.787233	1.5
-15	72.24	20.8385	14.12053	0.114886	0.504586	4.392046	8.759368	1.5
-15	72.24	20.8385	13.95581	0.114476	0.496919	4.340812	8.657187	1.5
-16	72.24	20.85586	13.76114	0.114312	0.489284	4.280266	8.536428	1.5
-16	72.24	20.85586	13.68627	0.11302	0.481125	4.256978	8.489984	1.5
-16	72.24	20.85586	13.52903	0.11263	0.473957	4.208071	8.392443	1.5
-17	72.24	20.85586	13.14718	0.114735	0.469185	4.089302	8.155571	1.5
-17	72.24	20.85586	12.7878	0.117316	0.466627	3.977515	7.932637	1.5
-17	72.24	20.87323	12.46584	0.119918	0.464965	3.877374	7.732916	1.4
-17	72.24	20.87323	12.22625	0.122236	0.464844	3.802853	7.584292	1.4
-18	72.24	20.87323	12.03158	0.124152	0.464616	3.742304	7.463532	1.4
-18	72.24	20.87323	11.79199	0.126146	0.462678	3.667783	7.314908	1.4
-18	72.24	20.87323	11.39517	0.129853	0.460245	3.544352	7.068749	1.3
-19	72.24	20.87323	11.0208	0.133142	0.456397	3.427908	6.836517	1.3
-19	72.24	20.87323	10.55659	0.13777	0.452372	3.283523	6.548554	1.2
-19	72.24	20.87323	10.24213	0.140989	0.449151	3.185711	6.353486	1.2
-19	72.24	20.85586	10.03997	0.142559	0.445188	3.122834	6.22808	1.2
-20	72.24	20.85586	9.777918	0.143382	0.43607	3.041325	6.065522	1.2
-20	72.24	20.85586	9.426017	0.144273	0.422989	2.931869	5.847227	1.2
-20	72.24	20.85586	9.201399	0.142494	0.40782	2.862004	5.70789	1.2
-20	72.24	20.85586	9.111552	0.139112	0.394251	2.834058	5.652156	1.2
-21	72.24	20.85586	9.163963	0.133652	0.380957	2.850359	5.684668	1.3
-21	72.24	20.85586	9.201399	0.12819	0.366879	2.862003	5.70789	1.3
-21	72.24	20.85586	9.650635	0.116801	0.350607	3.001735	5.986564	1.5
-22	72.24	20.85586	10.05495	0.1085	0.339332	3.127492	6.237372	1.6
-22	72.24	20.85586	10.01751	0.106099	0.330587	3.115848	6.214147	1.6
-22	72.24	20.85586	9.93515	0.104966	0.324369	3.090228	6.163057	1.6
-23	72.24	20.85586	9.762943	0.105624	0.320744	3.036666	6.056232	1.6
-23	72.24	20.8385	9.643147	0.106529	0.319525	2.999404	5.981919	1.6
-23	72.24	20.85586	9.440991	0.108596	0.318894	2.936527	5.856516	1.6
-23	72.24	20.85586	9.156476	0.111841	0.318525	2.848031	5.680023	1.5
-24	72.24	20.85586	8.939345	0.114489	0.318336	2.780494	5.545331	1.5
-24	72.24	20.85586	8.737189	0.11734	0.318884	2.717616	5.419928	1.5
-24	72.24	20.8385	8.317903	0.122988	0.318193	2.587199	5.159833	1.4
-25	72.24	20.8385	7.913591	0.128868	0.3172	2.461443	4.909026	1.3
-25	72.24	20.8385	7.516767	0.136061	0.318113	2.338014	4.662865	1.3
-25	72.24	20.8385	7.292149	0.14185	0.321737	2.268151	4.523528	1.2
-25	72.24	20.8385	6.842914	0.153522	0.32676	2.12842	4.244855	1.1
-26	72.24	20.85586	6.71563	0.158213	0.33048	2.088829	4.165897	1.1
-26	72.24	20.8385	6.820452	0.155379	0.329626	2.121433	4.230921	1.1
-26	72.24	20.85586	6.917786	0.150948	0.324796	2.151708	4.2913	1.1
-26	72.24	20.85586	6.730605	0.152334	0.318909	2.093487	4.175186	1.1
-27	72.24	20.85586	6.491013	0.154306	0.311539	2.018964	4.026561	1.1
-27	72.24	20.85586	6.273882	0.156072	0.304563	1.951428	3.891868	1.1
-27	72.24	20.85586	6.154086	0.156107	0.298816	1.914167	3.817555	1.1
-28	72.24	20.85586	5.996853	0.157523	0.293822	1.865262	3.720019	1.1
-28	72.24	20.85586	5.989366	0.15586	0.290356	1.862933	3.715375	1.1
-28	72.24	20.85586	5.989366	0.155417	0.289532	1.862933	3.715375	1.1
-28	72.24	20.85586	5.899519	0.158263	0.290411	1.834987	3.65964	1.1
-29	72.24	20.87323	5.704851	0.164481	0.291862	1.774437	3.538882	1.0
-29	72.24	20.87323	5.547618	0.169399	0.292303	1.725531	3.441346	1.0
-29	72.24	20.87323	5.435309	0.172447	0.291538	1.690599	3.371677	1.0
-30	72.24	20.89059	5.412848	0.173205	0.29161	1.683613	3.357744	1.0
-30	72.24	20.89059	5.293051	0.177105	0.291578	1.646351	3.283431	1.0
-30	72.24	20.89059	5.18823	0.180896	0.29192	1.613747	3.218407	0.9
-30	72.24	20.89059	5.120844	0.184487	0.293848	1.592788	3.176606	0.9
-31	72.24	20.90796	4.963612	0.190746	0.294489	1.543882	3.07907	0.9
-31	72.24	20.92532	4.85879	0.194535	0.293996	1.511278	3.014046	0.9
-31	72.24	20.94268	4.709045	0.199866	0.292744	1.464701	2.921155	0.9
-32	72.24	20.96005	4.566788	0.205921	0.292501	1.420454	2.832909	0.8
-32	72.24	20.96005	4.469453	0.209516	0.291265	1.390179	2.772529	0.8
-32	72.24	20.97741	4.402068	0.211648	0.289793	1.369219	2.730728	0.8
-32	72.24	20.97741	4.312221	0.214162	0.287249	1.341273	2.674994	0.8

-33	72.24	20.99478	4.237348	0.21614	0.28487	1.317985	2.628548	0.8
-33	72.24	21.01214	4.147501	0.218275	0.281583	1.290039	2.572813	0.8
-33	72.24	21.0295	4.027705	0.221175	0.277082	1.252777	2.4985	0.8
-34	72.24	21.0295	3.937858	0.222994	0.273129	1.224831	2.442766	0.8
-34	72.24	21.04687	3.870473	0.223782	0.269405	1.203872	2.400965	0.8
-34	72.24	21.04687	3.810575	0.224476	0.266058	1.185241	2.363808	0.8
-34	72.24	21.06423	3.758164	0.224663	0.262617	1.168939	2.331296	0.8
-35	72.24	21.0816	3.683291	0.226355	0.259324	1.145651	2.284851	0.8
-35	72.24	21.09896	3.645855	0.225269	0.255456	1.134007	2.261628	0.8
-35	72.24	21.09896	3.556008	0.228633	0.252882	1.106061	2.205893	0.7
-35	72.24	21.11633	3.41375	0.235008	0.249534	1.061813	2.117647	0.7
-36	72.24	21.13369	3.346365	0.237279	0.246972	1.040853	2.075846	0.7
-36	72.24	21.15105	3.293954	0.238393	0.244245	1.024551	2.043334	0.7
-36	72.24	21.16842	3.181645	0.243187	0.240663	0.989619	1.973665	0.7
-37	72.24	21.16842	3.129234	0.243906	0.237398	0.973317	1.941153	0.7
-37	72.24	21.18578	3.099285	0.242318	0.233595	0.964002	1.922575	0.7
-37	72.24	21.20315	3.076823	0.240019	0.229702	0.957015	1.908641	0.7
-37	72.24	21.22051	3.054362	0.238041	0.226146	0.950029	1.894708	0.7
-38	72.24	21.22051	3.009438	0.237906	0.222693	0.936056	1.86684	0.7
-38	72.24	21.23787	2.897129	0.244459	0.220288	0.901123	1.797172	0.7
-38	72.24	21.25524	2.829744	0.248753	0.218943	0.880163	1.755371	0.7
-39	72.24	21.2726	2.777333	0.253419	0.218919	0.863862	1.722859	0.7
-39	72.24	21.28997	2.717435	0.260593	0.220261	0.845231	1.685702	0.7
-39	72.24	21.30733	2.679999	0.267048	0.222607	0.833587	1.66248	0.6
-39	72.24	21.3247	2.635075	0.275423	0.225741	0.819614	1.634612	0.6
-40	72.24	21.34206	2.590152	0.283507	0.228405	0.805641	1.606745	0.6
-40	72.24	21.35942	2.537741	0.291037	0.229727	0.789339	1.574233	0.6
-40	72.24	21.39415	2.500305	0.29481	0.229272	0.777695	1.551011	0.6
-41	72.24	21.41152	2.462868	0.296353	0.227021	0.766051	1.527787	0.6
-41	72.24	21.42888	2.40297	0.299198	0.223626	0.74742	1.490631	0.6
-41	72.24	21.44625	2.335585	0.302595	0.219824	0.72646	1.44883	0.6
-41	72.24	21.48097	2.238251	0.311892	0.217134	0.696185	1.388451	0.5
-42	72.24	21.5157	2.081018	0.333338	0.215763	0.64728	1.290915	0.5
-42	72.24	21.55043	1.961222	0.354823	0.216448	0.610019	1.216602	0.5
-42	72.24	21.58516	1.863888	0.375464	0.217673	0.579744	1.156223	0.5
-42	72.24	21.61989	1.863888	0.375529	0.217711	0.579744	1.156223	0.5
-43	72.24	21.65462	1.938761	0.357504	0.215586	0.603032	1.202669	0.5
-43	72.24	21.68934	1.946248	0.348383	0.210897	0.605361	1.207313	0.5
-43	72.24	21.72407	1.938761	0.341339	0.205838	0.603032	1.202669	0.5
-44	72.24	21.7588	1.961222	0.329902	0.201246	0.610019	1.216602	0.5
-44	72.24	21.79353	1.976197	0.323258	0.198699	0.614676	1.225891	0.5
-44	72.24	21.82826	1.916299	0.331987	0.197879	0.596046	1.188735	0.5
-44	72.24	21.84562	1.841426	0.3479	0.199262	0.572757	1.142289	0.5
-45	72.24	21.88035	1.789015	0.362695	0.201823	0.556455	1.109777	0.5
-45	72.24	21.89771	1.766554	0.372888	0.20489	0.549469	1.095844	0.5
-45	72.24	21.91508	1.691681	0.391698	0.206104	0.52618	1.049398	0.4
-46	72.24	21.96717	1.699168	0.39016	0.206203	0.528509	1.054042	0.4
-46	72.24	22.0019	1.706656	0.385403	0.204587	0.530838	1.058687	0.4
-46	72.24	22.03663	1.736605	0.375062	0.202591	0.540154	1.077266	0.5
-47	72.24	22.08872	1.654245	0.390899	0.201132	0.514536	1.026175	0.4
-47	72.24	22.12345	1.571885	0.40911	0.200022	0.488919	0.975085	0.4
-47	72.24	22.14081	1.564398	0.409536	0.199276	0.48659	0.970441	0.4
-47	72.24	22.15818	1.511987	0.423392	0.199116	0.470288	0.937929	0.4
-48	72.24	22.15818	1.467063	0.433055	0.19761	0.456315	0.910061	0.4
-48	72.24	22.19291	1.407165	0.447317	0.195784	0.437685	0.872905	0.4
-48	72.24	22.19291	1.444602	0.432204	0.194202	0.449329	0.896128	0.4
-49	72.24	22.19291	1.33978	0.45772	0.190743	0.416725	0.831104	0.4
-49	72.24	22.19291	1.287369	0.464663	0.186062	0.400423	0.798592	0.4
-49	72.24	22.17554	1.287369	0.446502	0.17879	0.400423	0.798592	0.4
-49	72.24	22.14081	1.205009	0.456028	0.170922	0.374806	0.747501	0.4
-50	72.24	22.12345	1.190035	0.440067	0.16289	0.370149	0.738213	0.4
-50	72.24	22.08872	1.115162	0.444154	0.154059	0.34686	0.691767	0.4
-50	72.24	22.05399	1.062752	0.441803	0.146042	0.330558	0.659255	0.4
-51	72.24	22.01926	1.0927	0.406555	0.138177	0.339873	0.677833	0.4
-51	72.24	22.0019	1.017828	0.413612	0.130943	0.316585	0.631388	0.4
-51	72.24	21.96717	0.965417	0.410164	0.123165	0.300283	0.598876	0.4
-52	72.24	21.94981	0.935468	0.399957	0.116375	0.290968	0.580298	0.4
-52	72.24	21.94981	0.890545	0.398937	0.110503	0.276995	0.55243	0.4
-52	72.24	21.93244	0.913006	0.366795	0.104163	0.283981	0.566364	0.5
-52	72.24	21.93244	0.860596	0.371678	0.099491	0.26768	0.533852	0.5
-53	72.24	21.93244	0.860596	0.351122	0.093988	0.26768	0.533852	0.5

-53	72.24	21.93244	0.808185	0.355625	0.089396	0.251378	0.50134	0.5
-53	72.24	21.93244	0.755774	0.361836	0.085059	0.235076	0.468828	0.5
-54	72.24	21.94981	0.770749	0.338732	0.081206	0.239734	0.478117	0.5
-54	72.24	21.94981	0.71085	0.349503	0.077276	0.221103	0.440961	0.5
-54	72.24	21.94981	0.703363	0.339431	0.074259	0.218774	0.436316	0.5
-54	72.24	21.96717	0.673414	0.339565	0.071125	0.209459	0.417738	0.5
-55	72.24	21.96717	0.680901	0.322267	0.068252	0.211788	0.422383	0.5
-55	72.24	21.98454	0.673414	0.313427	0.06565	0.209459	0.417738	0.5
-55	72.24	21.98454	0.650952	0.311052	0.062979	0.202472	0.403804	0.5
-56	72.24	22.0019	0.650952	0.304154	0.061583	0.202472	0.403804	0.6
-56	72.24	22.01926	0.621003	0.31431	0.060711	0.193157	0.385226	0.5
-56	72.24	22.03663	0.598542	0.319331	0.05945	0.18617	0.371292	0.5
-56	72.24	22.05399	0.57608	0.325231	0.058276	0.179184	0.357359	0.5
-57	72.24	22.05399	0.591054	0.30658	0.056362	0.183842	0.366648	0.6
-57	72.24	22.05399	0.516182	0.333487	0.053542	0.160553	0.320202	0.5
-57	72.24	22.05399	0.508695	0.320239	0.05067	0.158224	0.315558	0.5
-58	72.24	22.03663	0.516182	0.29268	0.046991	0.160553	0.320202	0.6
-58	72.24	22.01926	0.486233	0.294707	0.044571	0.151238	0.301624	0.6
-58	72.24	22.0019	0.49372	0.274242	0.042114	0.153567	0.306269	0.6
-58	72.24	21.98454	0.396386	0.322755	0.039793	0.123292	0.245889	0.5
-59	72.24	21.96717	0.381411	0.331118	0.039282	0.118634	0.2366	0.5
-59	72.24	21.94981	0.366437	0.346131	0.039451	0.113976	0.227311	0.5
-59	72.24	21.94981	0.351462	0.35484	0.038791	0.109319	0.218022	0.5
-60	72.24	21.93244	0.343975	0.357933	0.038295	0.10699	0.213377	0.5
-60	72.24	21.93244	0.351462	0.347652	0.038005	0.109319	0.218022	0.5
-60	72.24	21.91508	0.343975	0.339326	0.036304	0.10699	0.213377	0.5
-61	72.24	21.89771	0.343975	0.317241	0.033942	0.10699	0.213377	0.5
-61	72.24	21.89771	0.299051	0.335806	0.031236	0.093017	0.18551	0.5
-61	72.24	21.88035	0.246641	0.367783	0.028214	0.076715	0.152998	0.5
-61	72.24	21.88035	0.239153	0.345362	0.02569	0.074386	0.148354	0.5
-62	72.24	21.86299	0.231666	0.340976	0.02457	0.072057	0.143709	0.5
-62	72.24	21.84562	0.201717	0.38905	0.02441	0.062742	0.125131	0.4
-62	72.24	21.81089	0.216692	0.349271	0.023541	0.0674	0.13442	0.5
-62	72.24	21.77617	0.209204	0.3393	0.022079	0.065071	0.129775	0.5
-63	72.24	21.74144	0.141819	0.466285	0.020568	0.044111	0.087974	0.4
-63	72.24	21.68934	0.141819	0.432466	0.019077	0.044111	0.087974	0.4
-63	72.24	21.63725	0.156793	0.33173	0.016178	0.048769	0.097263	0.5
-63	72.24	21.58516	0.134332	0.341213	0.014257	0.041783	0.08333	0.5
-64	72.24	21.53307	0.164281	0.276046	0.014105	0.051098	0.101908	0.6
-64	72.24	21.48097	0.156793	0.26761	0.013051	0.048769	0.097263	0.6
-64	72.24	21.46361	0.089408	0.430782	0.01198	0.02781	0.055462	0.4
-65	72.24	21.41152	0.074434	0.470369	0.01089	0.023152	0.046173	0.4
-65	72.24	21.37679	0.096895	0.348576	0.010506	0.030138	0.060107	0.5
-65	72.24	21.34206	0.089408	0.300659	0.008361	0.02781	0.055462	0.6
-65	72.24	21.2726	0.074434	0.298896	0.00692	0.023152	0.046173	0.6
-65	72.24	21.22051	0.096895	0.226812	0.006836	0.030138	0.060107	0.8
-66	72.24	21.18578	0.11187	0.196678	0.006844	0.034796	0.069396	0.9
-66	72.24	21.13369	0.089408	0.22479	0.006251	0.02781	0.055462	0.8
-66	72.24	21.09896	0.02951	0.613651	0.005633	0.009179	0.018306	0.3
-67	72.24	21.04687	0.02951	0.44828	0.004115	0.009179	0.018306	0.4
-67	72.24	21.0295	0.044485	0.28051	0.003881	0.013836	0.027595	0.6
-67	72.24	20.99478	0.044485	0.257599	0.003564	0.013836	0.027595	0.7
-3	77.26	20.87323	54.77633	1.004975	17.12239	17.03763	7.538844	0.2
-3	77.26	20.87323	53.93776	0.72922	12.23397	16.7768	7.423432	0.3
-4	77.26	20.87323	56.09409	0.518306	9.043155	17.44751	7.720207	0.4
-4	77.26	20.87323	57.05246	0.389086	6.904561	17.7456	7.852107	0.5
-4	77.26	20.87323	56.93266	0.306777	5.432504	17.70833	7.835619	0.6
-5	77.26	20.87323	55.7347	0.251287	4.356245	17.33572	7.670745	0.8
-5	77.26	20.87323	54.41694	0.2142	3.625522	16.92585	7.489382	0.9
-5	77.26	20.87323	52.5002	0.189875	3.100588	16.32966	7.225582	1.0
-6	77.26	20.87323	51.18245	0.168735	2.686233	15.91979	7.04422	1.1
-6	77.26	20.87323	47.94795	0.15956	2.379631	14.91373	6.599057	1.2
-6	77.26	20.87323	46.3906	0.150219	2.167561	14.42933	6.38472	1.3
-7	77.26	20.87323	46.03121	0.139549	1.998004	14.31755	6.335257	1.4
-7	77.26	20.87323	45.91142	0.159725	2.280916	14.28029	6.31877	1.2
-7	77.26	20.87323	46.03121	0.156493	2.240602	14.31755	6.335257	1.2
-7	77.26	20.87323	47.82816	0.149711	2.227164	14.87647	6.582571	1.3
-8	77.26	20.87323	49.98449	0.143684	2.233883	15.54717	6.879345	1.3
-8	77.26	20.85586	50.10428	0.144203	2.247321	15.58444	6.895832	1.3
-8	77.26	20.85586	51.42204	0.141348	2.260759	15.99431	7.077195	1.3
-9	77.26	20.85586	52.02102	0.140135	2.267478	16.18062	7.159632	1.4

-9	77.26	20.85586	52.38041	0.139586	2.274197	16.29241	7.209095	1.4
-9	77.26	20.85586	54.41694	0.135156	2.287634	16.92584	7.489382	1.4
-10	77.26	20.8385	57.53164	0.129716	2.321228	17.89464	7.918057	1.5
-10	77.26	20.8385	60.16715	0.126548	2.368261	18.71439	8.280781	1.5
-10	77.26	20.82113	62.32348	0.123902	2.401855	19.3851	8.577556	1.5
-11	77.26	20.82113	60.88593	0.127892	2.422012	18.93796	8.379706	1.5
-11	77.26	20.80377	60.76614	0.128855	2.43545	18.9007	8.36322	1.5
-11	77.26	20.80377	61.36512	0.128301	2.448887	19.087	8.445657	1.5
-11	77.26	20.80377	63.16206	0.125335	2.462325	19.64592	8.692969	1.5
-12	77.26	20.78641	64.959	0.121868	2.462325	20.20485	8.940281	1.6
-12	77.26	20.78641	64.47981	0.101617	2.038017	20.05581	8.874331	1.9
-12	77.26	20.78641	68.55288	0.098076	2.091252	21.32269	9.434906	1.9
-13	77.26	20.78641	69.39146	0.098569	2.127458	21.58352	9.550319	1.9
-13	77.26	20.78641	66.63615	0.103038	2.13561	20.72651	9.171107	1.8
-13	77.26	20.76904	65.31839	0.104413	2.121322	20.31662	8.989744	1.8
-14	77.26	20.76904	63.76104	0.106128	2.104745	19.83223	8.775407	1.8
-14	77.26	20.76904	60.52654	0.111166	2.092824	18.82618	8.330244	1.7
-14	77.26	20.76904	58.25042	0.114422	2.073115	18.11821	8.016982	1.7
-15	77.26	20.76904	57.77123	0.114482	2.057146	17.96916	7.951031	1.7
-15	77.26	20.76904	57.77123	0.113606	2.041405	17.96917	7.951031	1.7
-15	77.26	20.76904	54.77633	0.118858	2.02506	17.03764	7.538844	1.6
-15	77.26	20.76904	53.81796	0.118949	1.991145	16.73954	7.406944	1.6
-16	77.26	20.76904	53.45857	0.117673	1.956637	16.62775	7.357482	1.6
-16	77.26	20.76904	51.54184	0.12099	1.939664	16.03157	7.093683	1.6
-16	77.26	20.76904	51.30224	0.12108	1.932071	15.95705	7.060707	1.6
-17	77.26	20.75168	50.34387	0.122592	1.919663	15.65896	6.928807	1.5
-17	77.26	20.76904	49.6251	0.123909	1.912582	15.43539	6.829883	1.5
-17	77.26	20.76904	48.30734	0.127664	1.918213	15.02552	6.64852	1.5
-17	77.26	20.76904	46.15101	0.133573	1.917415	14.35481	6.351745	1.4
-18	77.26	20.75168	44.71346	0.136692	1.901061	13.90768	6.153896	1.4
-18	77.26	20.75168	43.3957	0.137691	1.858522	13.4978	5.972533	1.4
-18	77.26	20.75168	42.91652	0.135718	1.811665	13.34876	5.906584	1.4
-18	77.26	20.76904	41.95815	0.135724	1.771292	13.05066	5.774683	1.4
-19	77.26	20.75168	40.52059	0.138311	1.743208	12.60353	5.576833	1.4
-19	77.26	20.75168	40.04141	0.138233	1.721615	12.45448	5.510883	1.4
-19	77.26	20.75168	40.04141	0.136017	1.694021	12.45448	5.510883	1.4
-20	77.26	20.75168	40.52059	0.131564	1.658164	12.60352	5.576833	1.4
-20	77.26	20.75168	40.4008	0.1302	1.636121	12.56626	5.560346	1.5
-20	77.26	20.75168	39.08304	0.133036	1.617233	12.15639	5.378983	1.4
-21	77.26	20.75168	38.00488	0.135913	1.606628	11.82104	5.230596	1.4
-21	77.26	20.75168	37.2861	0.136602	1.584231	11.59747	5.131671	1.4
-21	77.26	20.75168	35.84855	0.139298	1.553218	11.15033	4.933822	1.4
-22	77.26	20.75168	34.65059	0.141055	1.520245	10.77771	4.768947	1.3
-22	77.26	20.75168	33.21303	0.143922	1.486801	10.33058	4.571096	1.3
-22	77.26	20.75168	31.89527	0.147191	1.46024	9.920708	4.389733	1.3
-22	77.26	20.75168	30.9369	0.148842	1.432251	9.622614	4.257833	1.3
-23	77.26	20.75168	30.21813	0.149832	1.408281	9.399046	4.158909	1.3
-23	77.26	20.75168	29.37955	0.151296	1.382575	9.138221	4.043496	1.3
-23	77.26	20.75168	28.78057	0.151169	1.353252	8.951913	3.961058	1.3
-23	77.26	20.75168	27.942	0.153452	1.333666	8.691079	3.845646	1.2
-24	77.26	20.75168	27.22322	0.155087	1.313197	8.467514	3.746721	1.2
-24	77.26	20.75168	26.62424	0.156361	1.29486	8.281207	3.664284	1.2
-24	77.26	20.75168	26.26486	0.156104	1.275281	8.169423	3.614822	1.2
-25	77.26	20.75168	26.02526	0.154373	1.249636	8.0949	3.581846	1.2
-25	77.26	20.75168	25.0669	0.155188	1.209972	7.796806	3.449947	1.2
-25	77.26	20.75168	24.01868	0.154924	1.157401	7.470771	3.305681	1.2
-26	77.26	20.75168	22.78328	0.157049	1.112929	7.086511	3.135654	1.2
-26	77.26	20.75168	21.74255	0.158549	1.072235	6.762806	2.992418	1.2
-26	77.26	20.75168	21.07619	0.158672	1.040178	6.555539	2.900708	1.2
-27	77.26	20.75168	20.66439	0.15906	1.022347	6.427453	2.844032	1.2
-27	77.26	20.75168	20.33495	0.159166	1.00672	6.324984	2.798691	1.2
-27	77.26	20.75168	20.06541	0.157617	0.983712	6.241142	2.761594	1.2
-28	77.26	20.75168	19.78089	0.157025	0.966122	6.152649	2.722436	1.2
-28	77.26	20.75168	19.34663	0.159497	0.959786	6.017578	2.662669	1.2
-28	77.26	20.75168	19.10704	0.162548	0.96603	5.943053	2.629694	1.2
-29	77.26	20.75168	18.90488	0.166121	0.976821	5.880176	2.601871	1.1
-29	77.26	20.76904	18.67278	0.170307	0.989139	5.807984	2.569927	1.1
-29	77.26	20.76904	18.3658	0.175675	1.003543	5.712499	2.527678	1.1
-29	77.26	20.76904	18.0738	0.179322	1.008092	5.621676	2.48749	1.1
-30	77.26	20.76904	17.45984	0.183313	0.995518	5.43071	2.402991	1.0
-30	77.26	20.76904	16.94322	0.184317	0.971356	5.27002	2.331889	1.0

-30	77.26	20.78641	16.50147	0.182515	0.936779	5.132619	2.271091	1.0
-31	77.26	20.78641	15.90998	0.182206	0.901672	4.948641	2.189684	1.0
-31	77.26	20.78641	15.22864	0.183615	0.869734	4.736718	2.095912	1.0
-31	77.26	20.78641	14.73448	0.183215	0.839675	4.583013	2.027901	1.0
-32	77.26	20.78641	14.29273	0.182805	0.812681	4.445612	1.967103	1.0
-32	77.26	20.78641	14.1954	0.179664	0.793279	4.415338	1.953707	1.1
-32	77.26	20.78641	13.92586	0.18048	0.781751	4.331499	1.916611	1.1
-33	77.26	20.78641	13.74616	0.182318	0.779519	4.275608	1.891879	1.0
-33	77.26	20.78641	13.65632	0.186488	0.792136	4.24766	1.879514	1.0
-33	77.26	20.78641	13.41672	0.200716	0.837617	4.173138	1.846538	0.9
-34	77.26	20.78641	13.21457	0.224378	0.922252	4.110261	1.818716	0.8
-34	77.26	20.80377	12.92257	0.242729	0.975632	4.019433	1.778528	0.8
-34	77.26	20.82113	12.668	0.253849	1.00023	3.940254	1.743492	0.7
-35	77.26	20.8385	12.3161	0.266003	1.019002	3.8308	1.69506	0.7
-35	77.26	20.87323	12.00912	0.274367	1.024846	3.735316	1.65281	0.7
-35	77.26	20.92532	11.76953	0.277931	1.017447	3.660795	1.619836	0.7
-36	77.26	20.96005	11.58983	0.278031	1.002276	3.604903	1.595104	0.7
-36	77.26	21.01214	11.44758	0.276235	0.983576	3.560654	1.575526	0.7
-36	77.26	21.06423	11.21547	0.277385	0.967646	3.488461	1.543581	0.7
-37	77.26	21.11633	10.98337	0.27875	0.952285	3.416267	1.511637	0.7
-37	77.26	21.16842	10.7887	0.278709	0.935268	3.355716	1.484844	0.7
-37	77.26	21.22051	10.47423	0.281039	0.915597	3.257905	1.441564	0.7
-38	77.26	21.2726	10.15977	0.282964	0.894194	3.160094	1.398285	0.7
-38	77.26	21.30733	9.732994	0.288904	0.874614	3.027351	1.339548	0.7
-38	77.26	21.34206	9.373606	0.293751	0.85645	2.915566	1.290086	0.6
-39	77.26	21.37679	9.096578	0.296322	0.838413	2.8294	1.251958	0.6
-39	77.26	21.39415	8.699753	0.30392	0.822398	2.705972	1.197344	0.6
-39	77.26	21.42888	8.400263	0.31072	0.811853	2.612817	1.156125	0.6
-39	77.26	21.44625	8.085798	0.318328	0.800597	2.515007	1.112845	0.6
-40	77.26	21.48097	7.891129	0.320689	0.787118	2.454457	1.086053	0.6
-40	77.26	21.5157	7.606614	0.326711	0.772986	2.365961	1.046895	0.6
-40	77.26	21.53307	7.389483	0.329824	0.758074	2.298425	1.017012	0.6
-41	77.26	21.56779	7.277174	0.326846	0.739814	2.263493	1.001555	0.6
-41	77.26	21.60252	7.015121	0.329716	0.719435	2.181983	0.965488	0.6
-41	77.26	21.65462	6.887837	0.326057	0.698542	2.142393	0.94797	0.6
-42	77.26	21.70671	6.79799	0.320092	0.676817	2.114447	0.935605	0.6
-42	77.26	21.7588	6.685681	0.315632	0.656362	2.079515	0.920148	0.6
-42	77.26	21.84562	6.505987	0.314273	0.635969	2.023622	0.895416	0.6
-43	77.26	21.93244	6.296344	0.315044	0.616987	1.958415	0.866563	0.6
-43	77.26	22.01926	6.199009	0.310075	0.597869	1.928141	0.853167	0.6
-43	77.26	22.10609	6.019315	0.310361	0.581072	1.872248	0.828436	0.6
-44	77.26	22.17554	5.862083	0.310112	0.56544	1.823342	0.806796	0.6
-44	77.26	22.245	5.802185	0.30482	0.550113	1.804712	0.798552	0.6
-44	77.26	22.31446	5.644952	0.305219	0.535906	1.755806	0.776912	0.6
-45	77.26	22.38391	5.420335	0.309645	0.522043	1.685942	0.745999	0.6
-45	77.26	22.436	5.233153	0.313067	0.509585	1.62772	0.720237	0.6
-45	77.26	22.4881	5.113357	0.313276	0.498252	1.590458	0.703749	0.6
-46	77.26	22.54019	5.18823	0.301169	0.48601	1.613747	0.714054	0.6
-46	77.26	22.59228	5.255615	0.288323	0.471324	1.634707	0.723328	0.7
-46	77.26	22.62701	5.240641	0.279491	0.455583	1.630048	0.721267	0.7
-46	77.26	22.66174	5.120844	0.276535	0.440462	1.592787	0.70478	0.7
-47	77.26	22.6791	4.963612	0.276987	0.427635	1.543882	0.68314	0.7
-47	77.26	22.71383	4.738995	0.282297	0.41611	1.474017	0.652226	0.7
-47	77.26	22.7312	4.604224	0.28422	0.407031	1.432098	0.633678	0.7
-48	77.26	22.74856	4.454479	0.288723	0.400032	1.385521	0.613068	0.7
-48	77.26	22.76592	4.334682	0.292659	0.394581	1.34826	0.596581	0.6
-48	77.26	22.80065	4.132526	0.303225	0.38976	1.285381	0.568758	0.6
-49	77.26	22.81802	4.050167	0.304115	0.383113	1.259764	0.557423	0.6
-49	77.26	22.81802	4.154988	0.289609	0.374282	1.292367	0.571849	0.7
-49	77.26	22.83538	4.117552	0.28396	0.363675	1.280724	0.566697	0.7
-50	77.26	22.85275	4.050167	0.280403	0.353241	1.259764	0.557423	0.7
-50	77.26	22.85275	3.930371	0.281728	0.344413	1.222503	0.540935	0.7
-50	77.26	22.85275	3.885447	0.27899	0.337168	1.208529	0.534753	0.7
-51	77.26	22.85275	3.87796	0.273738	0.330183	1.206201	0.533722	0.7
-51	77.26	22.81802	3.840524	0.272519	0.325539	1.194557	0.52857	0.7
-51	77.26	22.80065	3.720727	0.278448	0.322247	1.157295	0.512082	0.7
-52	77.26	22.76592	3.608419	0.285445	0.320373	1.122363	0.496625	0.7
-52	77.26	22.74856	3.533546	0.289528	0.318213	1.099074	0.486321	0.7
-52	77.26	22.7312	3.458673	0.291376	0.313458	1.075786	0.476016	0.7
-52	77.26	22.71383	3.308928	0.30061	0.309391	1.029209	0.455406	0.6
-53	77.26	22.71383	3.264005	0.299079	0.303636	1.015236	0.449224	0.6

-53	77.26	22.69647	3.136722	0.304178	0.29677	0.975646	0.431706	0.6
-53	77.26	22.6791	3.016925	0.309205	0.290153	0.938384	0.415218	0.6
-54	77.26	22.66174	2.979489	0.304991	0.282648	0.92674	0.410066	0.6
-54	77.26	22.62701	2.822257	0.31266	0.274464	0.877835	0.388426	0.6
-54	77.26	22.60965	2.747384	0.312371	0.266935	0.854546	0.378121	0.6
-55	77.26	22.59228	2.65005	0.314305	0.259073	0.824272	0.364725	0.6
-55	77.26	22.57492	2.605126	0.31084	0.251873	0.810299	0.358542	0.6
-55	77.26	22.55755	2.582664	0.304081	0.244272	0.803312	0.355451	0.6
-56	77.26	22.54019	2.447894	0.311203	0.236948	0.761393	0.336903	0.6
-56	77.26	22.52283	2.358047	0.312038	0.228863	0.733447	0.324537	0.6
-56	77.26	22.50546	2.320611	0.308097	0.222386	0.721803	0.319385	0.6
-57	77.26	22.4881	2.193327	0.317987	0.216934	0.682212	0.301867	0.6
-57	77.26	22.47073	2.10348	0.320665	0.2098	0.654267	0.289501	0.6
-57	77.26	22.45337	2.006146	0.325799	0.203296	0.623991	0.276105	0.6
-58	77.26	22.436	1.991171	0.318436	0.197218	0.619334	0.274044	0.6
-58	77.26	22.41864	1.953735	0.311901	0.189539	0.60769	0.268892	0.6
-58	77.26	22.41864	1.848913	0.316799	0.182187	0.575086	0.254465	0.6
-59	77.26	22.40128	1.766554	0.319028	0.175296	0.549469	0.24313	0.6
-59	77.26	22.38391	1.669219	0.323831	0.168131	0.519194	0.229734	0.6
-59	77.26	22.36655	1.646757	0.315674	0.16169	0.512208	0.226643	0.6
-60	77.26	22.34918	1.534449	0.327819	0.15646	0.477275	0.211186	0.6
-60	77.26	22.34918	1.452089	0.334922	0.15127	0.451658	0.19985	0.6
-60	77.26	22.33182	1.474551	0.318403	0.146034	0.458644	0.202942	0.6
-61	77.26	22.31446	1.392191	0.324225	0.140398	0.433027	0.191607	0.6
-61	77.26	22.29709	1.287369	0.337294	0.13506	0.400423	0.17718	0.6
-61	77.26	22.29709	1.302344	0.321075	0.130061	0.405081	0.179241	0.6
-61	77.26	22.27973	1.219984	0.327327	0.124209	0.379464	0.167906	0.6
-62	77.26	22.26236	1.167573	0.326108	0.11843	0.363162	0.160693	0.6
-62	77.26	22.26236	1.12265	0.325449	0.113643	0.349189	0.15451	0.6
-62	77.26	22.245	1.130137	0.307377	0.108049	0.351518	0.15554	0.6
-62	77.26	22.245	1.047777	0.316682	0.103207	0.3259	0.144205	0.6
-63	77.26	22.245	0.980392	0.321184	0.097942	0.304941	0.134931	0.6
-63	77.26	22.22763	0.980392	0.30437	0.092815	0.304941	0.134931	0.6
-63	77.26	22.22763	0.942955	0.302854	0.088826	0.293297	0.129779	0.6
-64	77.26	22.21027	0.883057	0.30609	0.084073	0.274666	0.121535	0.6
-64	77.26	22.21027	0.808185	0.318663	0.080105	0.251378	0.11123	0.6
-64	77.26	22.19291	0.845621	0.292132	0.076837	0.263022	0.116382	0.6
-65	77.26	22.19291	0.770749	0.308427	0.07394	0.239734	0.106078	0.6
-65	77.26	22.19291	0.71085	0.316754	0.070035	0.221103	0.097834	0.6
-65	77.26	22.17554	0.71085	0.297826	0.06585	0.221103	0.097834	0.6
-65	77.26	22.17554	0.650952	0.312514	0.063275	0.202472	0.08959	0.6
-66	77.26	22.15818	0.673414	0.290392	0.060825	0.209459	0.092682	0.7
-66	77.26	22.15818	0.591054	0.31289	0.057522	0.183842	0.081347	0.6
-66	77.26	22.15818	0.546131	0.319629	0.054295	0.169869	0.075164	0.6
-67	77.26	22.14081	0.591054	0.282862	0.052002	0.183842	0.081347	0.7
-67	77.26	22.14081	0.508695	0.310416	0.049115	0.158224	0.070011	0.6
-67	77.26	22.14081	0.49372	0.30278	0.046497	0.153567	0.06795	0.6
-67	77.26	22.14081	0.433822	0.327715	0.044221	0.134936	0.059707	0.6
-68	77.26	22.14081	0.478746	0.284907	0.042425	0.148909	0.06589	0.7
-68	77.26	22.12345	0.456284	0.285983	0.040587	0.141923	0.062798	0.7
-68	77.26	22.12345	0.366437	0.345405	0.039368	0.113976	0.050433	0.5
-68	77.26	22.12345	0.381411	0.307536	0.036484	0.118634	0.052493	0.6
-69	77.26	22.10609	0.41136	0.262674	0.033609	0.127949	0.056615	0.7
-69	77.26	22.10609	0.343975	0.291578	0.031196	0.10699	0.047341	0.7
-69	77.26	22.10609	0.291564	0.315827	0.028642	0.090688	0.040128	0.6
-70	77.26	22.08872	0.336488	0.238504	0.024962	0.104661	0.046311	0.8
-70	77.26	22.05399	0.269102	0.269578	0.022564	0.083702	0.037036	0.7
-70	77.26	22.01926	0.239153	0.279105	0.020762	0.074386	0.032915	0.7
-71	77.26	21.94981	0.224179	0.29207	0.020366	0.069729	0.030854	0.7
-71	77.26	21.89771	0.19423	0.300046	0.018127	0.060413	0.026732	0.6
-71	77.26	21.82826	0.149306	0.350454	0.016275	0.04644	0.020549	0.5
-71	77.26	21.74144	0.216692	0.223942	0.015094	0.0674	0.029823	0.8
-72	77.26	21.67198	0.149306	0.28763	0.013358	0.04644	0.020549	0.7
-72	77.26	21.58516	0.134332	0.29867	0.012479	0.041783	0.018488	0.6
-72	77.26	21.5157	0.104383	0.368646	0.011969	0.032467	0.014366	0.5
-73	77.26	21.44625	0.179255	0.17699	0.009868	0.055756	0.024671	1.1
-73	77.26	21.37679	0.11187	0.25574	0.008899	0.034796	0.015397	0.7
-73	77.26	21.30733	0.104383	0.240417	0.007806	0.032467	0.014366	0.8
-73	77.26	21.22051	0.059459	0.423134	0.007826	0.018494	0.008183	0.4
-74	77.26	21.16842	0.134332	0.167481	0.006998	0.041783	0.018488	1.1
-74	77.26	21.09896	0.11187	0.166209	0.005783	0.034796	0.015397	1.1

-74	77.26	21.0295	0.089408	0.16583	0.004612	0.02781	0.012305	1.1
-74	77.26	20.96005	0.074434	0.169997	0.003936	0.023152	0.010244	1.1
-75	77.26	20.85586	0.051972	0.160306	0.002591	0.016165	0.007153	1.2
-75	77.26	20.73431	0.02951	0.215811	0.001981	0.009179	0.004061	0.9
-75	77.26	20.5954	0.074434	0.059032	0.001367	0.023152	0.010244	3.2
-3	84.73	20.43912	408.1748	0.111822	14.19675	126.9587	36.93465	1.1
-4	84.73	20.43912	398.5912	0.106789	13.23948	123.9778	36.06746	1.1
-4	84.73	20.43912	390.9242	0.100091	12.17041	121.5931	35.37369	1.2
-4	84.73	20.42176	266.5758	0.130405	10.81265	82.91578	24.12173	0.9
-5	84.73	20.42176	258.3099	0.122151	9.814159	80.34474	23.37377	1.0
-5	84.73	20.42176	291.6132	0.103979	9.431234	90.70343	26.3873	1.2
-6	84.73	20.42176	320.7237	0.090761	9.054085	99.75788	29.02143	1.3
-6	84.73	20.42176	235.4288	0.116242	8.512176	73.2278	21.30332	1.1
-6	84.73	20.42176	262.6226	0.09982	8.153888	81.68614	23.76402	1.2
-7	84.73	20.42176	273.524	0.090953	7.73801	85.07693	24.75046	1.3
-7	84.73	20.42176	255.0754	0.093463	7.415207	79.33868	23.08109	1.3
-7	84.73	20.40439	222.0117	0.101832	7.031988	69.05452	20.08925	1.2
-8	84.73	20.40439	211.5894	0.101351	6.670166	65.8128	19.14616	1.2
-8	84.73	20.40439	218.5376	0.09614	6.534981	67.97394	19.77488	1.3
-8	84.73	20.38703	201.287	0.101866	6.377646	62.60832	18.21392	1.2
-9	84.73	20.38703	177.8069	0.110968	6.137109	55.30506	16.08927	1.1
-9	84.73	20.36967	188.5886	0.10037	5.887568	58.65859	17.06488	1.2
-9	84.73	20.36967	190.8647	0.098066	5.821831	59.36655	17.27084	1.2
-10	84.73	20.3523	201.4068	0.092352	5.785452	62.64556	18.22476	1.3
-10	84.73	20.3523	196.0159	0.09461	5.768267	60.96882	17.73696	1.3
-10	84.73	20.33494	189.7865	0.097863	5.776955	59.03121	17.17327	1.2
-11	84.73	20.33494	189.1876	0.100242	5.898722	58.84488	17.11908	1.2
-11	84.73	20.31757	187.151	0.102623	5.97383	58.21147	16.9348	1.2
-11	84.73	20.31757	171.5775	0.111023	5.925014	53.36749	15.52559	1.1
-12	84.73	20.31757	158.2802	0.116771	5.74881	49.23144	14.32235	1.0
-12	84.73	20.30021	152.2904	0.119015	5.63757	47.36841	13.78035	1.0
-12	84.73	20.30021	150.2538	0.119179	5.569802	46.73496	13.59607	1.0
-13	84.73	20.30021	147.0193	0.121884	5.573634	45.72893	13.30338	1.0
-13	84.73	20.30021	145.9412	0.122695	5.569543	45.39354	13.20583	1.0
-13	84.73	20.30021	133.2428	0.1333	5.524464	41.44381	12.05679	0.9
-13	84.73	20.30021	124.3779	0.140154	5.422067	38.68649	11.25462	0.9
-14	84.73	20.30021	115.0338	0.147613	5.28161	35.78012	10.4091	0.8
-14	84.73	20.30021	110.0023	0.149015	5.098576	34.21512	9.953815	0.8
-14	84.73	20.30021	109.5231	0.144369	4.918095	34.06607	9.910453	0.8
-14	84.73	20.28284	119.3464	0.129339	4.801261	37.12153	10.79934	0.9
-15	84.73	20.28284	118.2683	0.128636	4.732037	36.78617	10.70178	0.9
-15	84.73	20.28284	99.58007	0.14943	4.628344	30.97339	9.010735	0.8
-15	84.73	20.28284	90.83495	0.159253	4.49941	28.25331	8.219413	0.8
-15	84.73	20.28284	91.67353	0.154713	4.411511	28.51414	8.295293	0.8
-16	84.73	20.28284	98.14252	0.143349	4.375892	30.52625	8.880655	0.9
-16	84.73	20.28284	98.38211	0.142612	4.364034	30.60077	8.902335	0.9
-16	84.73	20.28284	94.54864	0.149197	4.387651	29.40842	8.555454	0.8
-16	84.73	20.28284	90.95475	0.158028	4.470703	28.29058	8.230253	0.8
-17	84.73	20.28284	89.27761	0.164601	4.570776	27.76891	8.078493	0.7
-17	84.73	20.28284	87.72026	0.166754	4.549789	27.28452	7.937573	0.7
-17	84.73	20.28284	85.56393	0.167135	4.448097	26.61381	7.742452	0.7
-18	84.73	20.28284	84.96495	0.164291	4.341803	26.4275	7.688252	0.7
-18	84.73	20.28284	82.68882	0.164215	4.223539	25.71952	7.482291	0.7
-18	84.73	20.28284	77.53759	0.169643	4.09134	24.1173	7.01617	0.7
-18	84.73	20.28284	76.69901	0.167005	3.984142	23.85647	6.940289	0.7
-19	84.73	20.28284	76.21983	0.165502	3.923632	23.70742	6.896929	0.7
-19	84.73	20.28284	75.02187	0.167623	3.911444	23.3348	6.788529	0.7
-19	84.73	20.28284	69.87064	0.18235	3.962936	21.73257	6.322408	0.7
-19	84.73	20.30021	65.55798	0.19731	4.023383	20.39115	5.932167	0.6
-20	84.73	20.30021	62.32348	0.210274	4.076189	19.38509	5.639486	0.6
-20	84.73	20.30021	61.8443	0.213769	4.112076	19.23605	5.596126	0.6
-20	84.73	20.30021	64.00063	0.20665	4.113739	19.90676	5.791246	0.6
-21	84.73	20.30021	66.03716	0.199024	4.08799	20.5402	5.975527	0.6
-21	84.73	20.30021	65.19859	0.20014	4.058712	20.27937	5.899647	0.6
-21	84.73	20.30021	62.44328	0.20695	4.019454	19.42236	5.650326	0.6
-22	84.73	20.31757	59.80777	0.213967	3.980347	18.60261	5.411846	0.6
-22	84.73	20.31757	58.13062	0.217514	3.932853	18.08095	5.260085	0.6
-22	84.73	20.33494	56.09409	0.223498	3.899489	17.4475	5.075805	0.5
-22	84.73	20.33494	55.13572	0.226797	3.889438	17.14942	4.989084	0.5
-23	84.73	20.33494	54.65653	0.228436	3.883489	17.00037	4.945724	0.5
-23	84.73	20.3523	53.09918	0.234084	3.86613	16.51597	4.804803	0.5

-23	84.73	20.3523	52.02102	0.237523	3.843275	16.18062	4.707243	0.5
-23	84.73	20.3523	51.06265	0.24006	3.812753	15.88253	4.620523	0.5
-24	84.73	20.36967	49.98449	0.242801	3.774874	15.54717	4.522963	0.5
-24	84.73	20.36967	47.94795	0.250928	3.742273	14.91373	4.338682	0.5
-24	84.73	20.38703	45.91142	0.260591	3.721308	14.28029	4.154402	0.5
-24	84.73	20.40439	44.59366	0.267945	3.716512	13.87041	4.035161	0.5
-25	84.73	20.40439	43.99468	0.27191	3.720844	13.68411	3.980961	0.4
-25	84.73	20.43912	43.75509	0.273438	3.721375	13.60959	3.959281	0.4
-25	84.73	20.47385	43.15611	0.276264	3.708369	13.42327	3.905081	0.4
-25	84.73	20.52594	41.71856	0.284157	3.687261	12.97614	3.775001	0.4
-26	84.73	20.57804	40.52059	0.289978	3.654748	12.60353	3.6666	0.4
-26	84.73	20.63013	39.56223	0.295879	3.640918	12.30544	3.579881	0.4
-26	84.73	20.66486	38.72365	0.301909	3.636369	12.04461	3.504	0.4
-27	84.73	20.71695	38.24447	0.305465	3.633678	11.89556	3.46064	0.4
-27	84.73	20.75168	38.24447	0.305938	3.639299	11.89556	3.46064	0.4
-27	84.73	20.76904	38.00488	0.308636	3.648401	11.82104	3.43896	0.4
-27	84.73	20.80377	37.52569	0.312216	3.64418	11.67199	3.3956	0.4
-28	84.73	20.8385	37.0465	0.314984	3.629544	11.52294	3.352239	0.4
-28	84.73	20.87323	36.56732	0.316508	3.599928	11.3739	3.308879	0.4
-28	84.73	20.92532	36.32773	0.316598	3.577357	11.29938	3.287199	0.4
-28	84.73	20.96005	36.20793	0.315037	3.547988	11.26212	3.276359	0.4
-29	84.73	21.01214	35.60895	0.31748	3.516352	11.07581	3.222159	0.4
-29	84.73	21.06423	34.77038	0.321161	3.473354	10.81498	3.146279	0.4
-29	84.73	21.09896	33.69221	0.327414	3.431177	10.47963	3.048718	0.4
-29	84.73	21.15105	32.73384	0.332585	3.386228	10.18153	2.961998	0.4
-30	84.73	21.18578	31.77548	0.336667	3.327432	9.883447	2.875278	0.4
-30	84.73	21.22051	31.1765	0.336006	3.258292	9.697137	2.821078	0.4
-30	84.73	21.23787	30.57752	0.334851	3.18471	9.510833	2.766878	0.4
-31	84.73	21.25524	30.09833	0.332306	3.11098	9.361787	2.723518	0.4
-31	84.73	21.2726	29.49935	0.331478	3.041473	9.175478	2.669318	0.4
-31	84.73	21.30733	28.90037	0.33072	2.972894	8.989172	2.615117	0.4
-31	84.73	21.3247	28.30139	0.331373	2.917035	8.802864	2.560917	0.4
-32	84.73	21.34206	27.82221	0.330485	2.85996	8.653819	2.517558	0.4
-32	84.73	21.35942	27.10343	0.334557	2.820399	8.430252	2.452517	0.4
-32	84.73	21.39415	26.26486	0.34216	2.795251	8.169421	2.376637	0.4
-32	84.73	21.42888	25.42628	0.349685	2.765514	7.908593	2.300756	0.3
-33	84.73	21.46361	23.96627	0.366597	2.732786	7.454468	2.168644	0.3
-33	84.73	21.49834	22.83569	0.380097	2.699759	7.102815	2.066341	0.3
-33	84.73	21.53307	21.82491	0.39268	2.665679	6.788421	1.974878	0.3
-34	84.73	21.56779	21.28583	0.39456	2.612284	6.620746	1.926098	0.3
-34	84.73	21.58516	20.99383	0.390706	2.551278	6.52992	1.899676	0.3
-34	84.73	21.60252	20.67936	0.385674	2.480698	6.43211	1.87122	0.3
-34	84.73	21.63725	20.61946	0.373222	2.393653	6.413479	1.8658	0.3
-35	84.73	21.65462	20.40233	0.36474	2.314617	6.345942	1.846152	0.3
-35	84.73	21.67198	19.90069	0.361456	2.237379	6.18991	1.80076	0.3
-35	84.73	21.70671	19.35412	0.358976	2.160999	6.019906	1.751303	0.3
-36	84.73	21.72407	18.97976	0.354032	2.090013	5.903463	1.717428	0.3
-36	84.73	21.7588	18.49308	0.351638	2.02265	5.752089	1.67339	0.3
-36	84.73	21.79353	17.96149	0.35245	1.969045	5.586741	1.625287	0.3
-36	84.73	21.81089	17.41492	0.354153	1.918351	5.416737	1.57583	0.3
-37	84.73	21.82826	17.00312	0.353345	1.868718	5.288651	1.538567	0.3
-37	84.73	21.84562	16.76353	0.34861	1.817698	5.214127	1.516887	0.4
-37	84.73	21.86299	16.50147	0.344463	1.767995	5.132618	1.493174	0.4
-38	84.73	21.88035	16.04475	0.344787	1.720678	4.990559	1.451847	0.4
-38	84.73	21.89771	15.6629	0.343365	1.672804	4.871789	1.417294	0.4
-38	84.73	21.89771	15.34844	0.340336	1.624755	4.773978	1.388839	0.4
-38	84.73	21.91508	15.17623	0.334414	1.578571	4.720414	1.373257	0.4
-39	84.73	21.93244	14.95161	0.32953	1.532498	4.65055	1.352931	0.4
-39	84.73	21.94981	14.43499	0.333821	1.498811	4.48986	1.306184	0.4
-39	84.73	21.96717	13.95581	0.33903	1.471665	4.340814	1.262824	0.4
-40	84.73	21.98454	13.45416	0.345384	1.445355	4.184783	1.217431	0.4
-40	84.73	21.98454	13.13221	0.350342	1.43102	4.084643	1.188299	0.3
-40	84.73	22.0019	12.96	0.351254	1.415933	4.031079	1.172716	0.3
-40	84.73	22.01926	12.81026	0.355475	1.41639	3.984502	1.159166	0.3
-41	84.73	22.01926	12.59313	0.361416	1.415653	3.916966	1.139519	0.3
-41	84.73	22.03663	12.39097	0.363296	1.400173	3.854088	1.121226	0.3
-41	84.73	22.05399	11.91927	0.371375	1.376826	3.707371	1.078543	0.3
-42	84.73	22.05399	11.67219	0.373109	1.354579	3.630519	1.056185	0.3
-42	84.73	22.05399	11.51496	0.371361	1.330072	3.581613	1.041958	0.3
-42	84.73	22.07136	11.35773	0.36543	1.290957	3.532708	1.027731	0.3
-43	84.73	22.07136	11.0208	0.369302	1.265936	3.427911	0.997243	0.3

-43	84.73	22.07136	10.76624	0.37126	1.243248	3.348729	0.974208	0.3
-43	84.73	22.08872	10.52664	0.372781	1.220563	3.274208	0.952528	0.3
-43	84.73	22.08872	10.15228	0.379038	1.196913	3.157766	0.918653	0.3
-44	84.73	22.08872	10.03249	0.374843	1.169698	3.120504	0.907813	0.3
-44	84.73	22.08872	9.920176	0.367729	1.134653	3.085571	0.89765	0.3
-44	84.73	22.08872	9.718019	0.363042	1.097365	3.022693	0.879358	0.3
-45	84.73	22.08872	9.351145	0.36393	1.05852	2.90858	0.84616	0.3
-45	84.73	22.07136	8.939345	0.3658	1.017104	2.780494	0.808898	0.3
-45	84.73	22.07136	8.57247	0.364467	0.971809	2.666381	0.7757	0.3
-46	84.73	22.07136	8.198107	0.363237	0.926232	2.54994	0.741825	0.3
-46	84.73	22.05399	7.966002	0.355789	0.881554	2.477745	0.720822	0.3
-46	84.73	22.03663	7.711435	0.350191	0.839956	2.398565	0.697787	0.3
-46	84.73	22.03663	7.509279	0.34399	0.803454	2.335687	0.679495	0.4
-47	84.73	22.01926	7.2622	0.340541	0.769227	2.258835	0.657137	0.4
-47	84.73	22.01926	7.000146	0.338362	0.736723	2.177326	0.633425	0.4
-47	84.73	22.0019	6.760554	0.334036	0.702412	2.102804	0.611745	0.4
-48	84.73	22.0019	6.431114	0.334493	0.669098	2.000334	0.581934	0.4
-48	84.73	21.98454	6.124137	0.334797	0.637739	1.904852	0.554157	0.4
-48	84.73	21.98454	5.78721	0.338989	0.610199	1.800055	0.523669	0.4
-49	84.73	21.96717	5.472745	0.345299	0.587783	1.702243	0.495214	0.4
-49	84.73	21.96717	5.203204	0.34892	0.564694	1.618404	0.470824	0.4
-49	84.73	21.96717	5.030997	0.345747	0.541039	1.564842	0.455242	0.4
-49	84.73	21.94981	4.873765	0.340108	0.515582	1.515935	0.441014	0.4
-50	84.73	21.94981	4.694071	0.335401	0.4897	1.460044	0.424754	0.4
-50	84.73	21.94981	4.499402	0.331147	0.463438	1.399494	0.407139	0.4
-50	84.73	21.94981	4.327195	0.326249	0.439109	1.345932	0.391556	0.4
-51	84.73	21.93244	4.09509	0.327103	0.416643	1.273737	0.370554	0.4
-51	84.73	21.93244	3.855498	0.329101	0.394663	1.199214	0.348874	0.4
-51	84.73	21.93244	3.683291	0.326177	0.373685	1.145651	0.333291	0.4
-51	84.73	21.93244	3.533546	0.321275	0.353105	1.099074	0.319741	0.4
-52	84.73	21.93244	3.368826	0.318994	0.334255	1.04784	0.304836	0.4
-52	84.73	21.91508	3.174158	0.320644	0.316568	0.98729	0.287221	0.4
-52	84.73	21.91508	2.986976	0.322323	0.29946	0.929069	0.270283	0.4
-53	84.73	21.91508	2.829744	0.322382	0.283749	0.880164	0.256056	0.4
-53	84.73	21.91508	2.754871	0.311801	0.267174	0.856875	0.249281	0.4
-53	84.73	21.91508	2.620101	0.30631	0.249629	0.814956	0.237086	0.4
-53	84.73	21.89771	2.582664	0.28869	0.231908	0.803312	0.233698	0.4
-54	84.73	21.89771	2.440407	0.283208	0.214973	0.759064	0.220826	0.4
-54	84.73	21.89771	2.328098	0.277354	0.200841	0.724132	0.210663	0.4
-54	84.73	21.89771	2.18584	0.2807	0.190843	0.679884	0.197791	0.4
-55	84.73	21.88035	2.028608	0.292088	0.184301	0.630978	0.183563	0.4
-55	84.73	21.88035	1.976197	0.288522	0.177348	0.614676	0.178821	0.4
-55	84.73	21.88035	1.871375	0.290237	0.168939	0.582073	0.169336	0.4
-55	84.73	21.86299	1.871375	0.273846	0.159398	0.582072	0.169336	0.4
-56	84.73	21.86299	1.856401	0.260839	0.150612	0.577415	0.167981	0.5
-56	84.73	21.84562	1.781528	0.258007	0.142968	0.554127	0.161206	0.5
-56	84.73	21.84562	1.72163	0.254588	0.136331	0.535496	0.155786	0.5
-57	84.73	21.84562	1.541936	0.276128	0.132432	0.479604	0.139526	0.4
-57	84.73	21.82826	1.467063	0.286527	0.130746	0.456315	0.132751	0.4
-57	84.73	21.82826	1.392191	0.300795	0.130252	0.433027	0.125976	0.4
-57	84.73	21.82826	1.392191	0.294687	0.127607	0.433027	0.125976	0.4
-58	84.73	21.82826	1.392191	0.280977	0.121671	0.433027	0.125976	0.4
-58	84.73	21.82826	1.332293	0.274077	0.113576	0.414396	0.120556	0.4
-58	84.73	21.81089	1.279882	0.260657	0.103766	0.398095	0.115813	0.5
-58	84.73	21.81089	1.145111	0.267045	0.095115	0.356175	0.103618	0.5
-59	84.73	21.81089	0.995366	0.287133	0.088896	0.309599	0.090068	0.4
-59	84.73	21.81089	0.898032	0.303293	0.084717	0.279324	0.081261	0.4
-59	84.73	21.81089	0.823159	0.322644	0.082608	0.256036	0.074485	0.4
-60	84.73	21.81089	0.808185	0.321737	0.080878	0.251378	0.07313	0.4
-60	84.73	21.81089	0.695876	0.359416	0.077794	0.216445	0.062968	0.3
-60	84.73	21.81089	0.71085	0.330929	0.073169	0.221103	0.064323	0.4
-61	84.73	21.81089	0.703363	0.31004	0.067829	0.218774	0.063645	0.4
-61	84.73	21.79353	0.695876	0.283013	0.061257	0.216445	0.062968	0.4
-61	84.73	21.79353	0.673414	0.262354	0.054952	0.209459	0.060935	0.5
-61	84.73	21.79353	0.546131	0.291904	0.049585	0.169869	0.049418	0.4
-62	84.73	21.79353	0.508695	0.287046	0.045418	0.158224	0.04603	0.4
-62	84.73	21.79353	0.49372	0.278069	0.042702	0.153567	0.044675	0.4
-62	84.73	21.77617	0.456284	0.288922	0.041004	0.141922	0.041288	0.4
-62	84.73	21.77617	0.471258	0.262026	0.038408	0.14658	0.042643	0.5
-63	84.73	21.77617	0.463771	0.250778	0.036175	0.144251	0.041965	0.5
-63	84.73	21.7588	0.381411	0.282605	0.033527	0.118634	0.034513	0.4

-63	84.73	21.7588	0.373924	0.260129	0.030254	0.116305	0.033835	0.5
-63	84.73	21.7588	0.366437	0.247775	0.028241	0.113976	0.033158	0.5
-64	84.73	21.74144	0.351462	0.235868	0.025785	0.109319	0.031803	0.5
-64	84.73	21.74144	0.358949	0.212673	0.023744	0.111648	0.03248	0.6
-64	84.73	21.74144	0.373924	0.188725	0.02195	0.116305	0.033835	0.6
-64	84.73	21.74144	0.314026	0.208804	0.020395	0.097675	0.028415	0.6
-65	84.73	21.72407	0.269102	0.230179	0.019266	0.083702	0.02435	0.5
-65	84.73	21.72407	0.27659	0.206931	0.017802	0.08603	0.025028	0.6
-65	84.73	21.72407	0.261615	0.217203	0.017674	0.081373	0.023673	0.6
-65	84.73	21.72407	0.306539	0.163808	0.015618	0.095346	0.027738	0.7
-66	84.73	21.70671	0.261615	0.178626	0.014535	0.081373	0.023673	0.7
-66	84.73	21.70671	0.216692	0.206655	0.013929	0.0674	0.019608	0.6
-66	84.73	21.70671	0.239153	0.1709	0.012713	0.074386	0.02164	0.7
-66	84.73	21.68934	0.231666	0.174973	0.012608	0.072057	0.020963	0.7
-67	84.73	21.68934	0.261615	0.142508	0.011596	0.081373	0.023673	0.9
-67	84.73	21.67198	0.171768	0.202844	0.010837	0.053427	0.015543	0.6
-67	84.73	21.67198	0.171768	0.191198	0.010215	0.053427	0.015543	0.6
-68	84.73	21.67198	0.179255	0.17269	0.009628	0.055756	0.01622	0.7
-68	84.73	21.67198	0.171768	0.174936	0.009346	0.053427	0.015543	0.7
-68	84.73	21.65462	0.209204	0.13376	0.008704	0.065071	0.01893	0.9
-68	84.73	21.65462	0.19423	0.134624	0.008133	0.060413	0.017575	0.9
-69	84.73	21.65462	0.126844	0.200573	0.007913	0.039454	0.011478	0.6
-69	84.73	21.65462	0.126844	0.18382	0.007252	0.039454	0.011478	0.7
-69	84.73	21.63725	0.149306	0.148666	0.006904	0.04644	0.01351	0.8
-69	84.73	21.63725	0.126844	0.170247	0.006717	0.039454	0.011478	0.7
-70	84.73	21.63725	0.171768	0.115551	0.006174	0.053427	0.015543	1.1
-70	84.73	21.61989	0.171768	0.10423	0.005569	0.053427	0.015543	1.2
-70	84.73	21.60252	0.089408	0.179194	0.004983	0.027809	0.00809	0.7
-71	84.73	21.58516	0.096895	0.179608	0.005413	0.030138	0.008768	0.7
-71	84.73	21.55043	0.119357	0.127401	0.00473	0.037125	0.0108	1.0
-71	84.73	21.5157	0.119357	0.113501	0.004214	0.037125	0.0108	1.1
-71	84.73	21.48097	0.156793	0.081221	0.003961	0.048769	0.014188	1.5
-71	84.73	21.44625	0.066946	0.172565	0.003593	0.020823	0.006058	0.7
-72	84.73	21.41152	0.074434	0.135526	0.003138	0.023152	0.006735	0.9
-72	84.73	21.35942	0.096895	0.086601	0.00261	0.030138	0.008768	1.4
-72	84.73	21.3247	0.119357	0.076635	0.002845	0.037125	0.0108	1.6
-73	84.73	21.28997	0.134332	0.060125	0.002512	0.041783	0.012155	2.0
-73	84.73	21.23787	0.044485	0.159078	0.002201	0.013836	0.004025	0.8
-73	84.73	21.18578	0.089408	0.081426	0.002264	0.02781	0.00809	1.5
-73	84.73	21.13369	0.104383	0.054454	0.001768	0.032467	0.009445	2.2
-74	84.73	21.09896	0.074434	0.070914	0.001642	0.023152	0.006735	1.7
-74	84.73	21.04687	0.051972	0.10474	0.001693	0.016165	0.004703	1.2
-74	84.73	21.01214	0.059459	0.069754	0.00129	0.018494	0.00538	1.8
-74	84.73	20.97741	0.059459	0.070967	0.001312	0.018494	0.00538	1.7
-75	84.73	20.94268	0.089408	0.045497	0.001265	0.02781	0.00809	2.7
-75	84.73	20.92532	0.11187	0.033104	0.001152	0.034796	0.010123	3.7
-4	98.93	20.12657	594.0984	0.365547	67.54877	184.7884	35.65979	0.7
-4	98.93	20.12657	553.8469	0.312103	53.76542	172.2685	33.24375	0.8
-5	98.93	20.12657	481.0109	0.292446	43.75391	149.6135	28.87189	0.9
-5	98.93	20.12657	427.3422	0.263278	34.99505	132.9205	25.65052	1.0
-5	98.93	20.12657	475.2607	0.201813	29.83296	147.8251	28.52675	1.3
-6	98.93	20.1092	542.3465	0.154871	26.12537	168.6915	32.55346	1.7
-6	98.93	20.1092	479.0941	0.153385	22.85707	149.0175	28.75684	1.7
-6	98.93	20.1092	316.8902	0.192476	18.9715	98.56556	19.02082	1.4
-7	98.93	20.1092	274.6022	0.189359	16.17361	85.41223	16.48255	1.4
-7	98.93	20.09184	563.4306	0.082203	14.40606	175.2495	33.819	3.2
-8	98.93	20.09184	351.3915	0.122947	13.43766	109.2968	21.0917	2.1
-8	98.93	20.07447	389.1273	0.105688	12.7919	121.0341	23.35673	2.5
-8	98.93	20.05711	391.4034	0.1019	12.40545	121.7421	23.49335	2.6
-9	98.93	20.03975	342.886	0.109991	11.73062	106.6512	20.58117	2.4
-9	98.93	20.02238	350.7925	0.104224	11.3719	109.1105	21.05575	2.5
-9	98.93	20.00502	348.9955	0.101482	11.01607	108.5515	20.94788	2.6
-10	98.93	20.00502	340.6098	0.1012	10.72145	105.9433	20.44455	2.6
-10	98.93	20.00502	334.7398	0.104422	10.87215	104.1175	20.09221	2.5
-10	98.93	20.00502	338.9327	0.104643	11.03162	105.4217	20.34388	2.5
-11	98.93	20.02238	292.8112	0.112586	10.25388	91.07596	17.57551	2.3
-11	98.93	20.03975	267.5342	0.12078	10.05059	83.2138	16.0583	2.2
-11	98.93	20.07447	299.1604	0.109498	10.18891	93.05081	17.95661	2.4
-12	98.93	20.09184	302.0355	0.110791	10.40829	93.94512	18.12919	2.4
-12	98.93	20.12657	294.2487	0.115218	10.54511	91.52309	17.6618	2.3
-12	98.93	20.14393	238.9029	0.138154	10.26602	74.30838	14.33976	1.9

-13	98.93	20.17866	216.6209	0.142927	9.630122	67.37777	13.00232	1.8
-13	98.93	20.19602	181.0414	0.160704	9.049415	56.31111	10.86671	1.6
-13	98.93	20.21339	189.7865	0.145842	8.60925	59.03119	11.39162	1.8
-13	98.93	20.23075	207.157	0.133553	8.605349	64.43411	12.43426	2.0
-14	98.93	20.23075	236.8664	0.121166	8.926921	73.67489	14.21752	2.2
-14	98.93	20.24812	206.7976	0.14608	9.396199	64.32232	12.41269	1.8
-14	98.93	20.26548	185.2343	0.167132	9.629375	57.61528	11.11839	1.6
-14	98.93	20.28284	187.6302	0.165013	9.630239	58.36052	11.2622	1.6
-15	98.93	20.30021	179.8435	0.167002	9.341823	55.93852	10.79481	1.6
-15	98.93	20.31757	175.5308	0.165769	9.050508	54.59711	10.53595	1.6
-15	98.93	20.3523	177.6871	0.161061	8.901498	55.2678	10.66538	1.6
-16	98.93	20.36967	181.6404	0.158709	8.96664	56.49743	10.90267	1.7
-16	98.93	20.42176	183.5571	0.160372	9.156205	57.09361	11.01771	1.6
-16	98.93	20.49121	157.801	0.188136	9.234156	49.08242	9.471747	1.4
-16	98.93	20.56067	144.7432	0.20267	9.124384	45.02094	8.687974	1.3
-17	98.93	20.61276	140.0712	0.208454	9.081845	43.56773	8.407545	1.3
-17	98.93	20.68222	139.7118	0.209209	9.09138	43.45595	8.385972	1.3
-17	98.93	20.75168	144.6234	0.199438	8.971435	44.98367	8.680783	1.3
-18	98.93	20.82113	125.6956	0.223636	8.743339	39.09636	7.544673	1.2
-18	98.93	20.87323	120.4246	0.228791	8.569809	37.45687	7.22829	1.2
-18	98.93	20.94268	123.5393	0.219105	8.419248	38.42567	7.415245	1.2
-18	98.93	20.99478	125.9352	0.20927	8.197282	39.17088	7.559054	1.3
-19	98.93	21.0295	120.6642	0.209628	7.867636	37.53138	7.242671	1.3
-19	98.93	21.06423	121.1434	0.202556	7.632395	37.68044	7.271435	1.3
-19	98.93	21.09896	122.1017	0.198997	7.557628	37.97853	7.328955	1.3
-19	98.93	21.11633	123.4195	0.196491	7.542975	38.3884	7.408054	1.3
-20	98.93	21.13369	122.4611	0.195836	7.459465	38.09031	7.350527	1.3
-20	98.93	21.16842	118.3881	0.196147	7.222802	36.82342	7.106052	1.3
-20	98.93	21.18578	114.6744	0.196344	7.003264	35.66832	6.883143	1.3
-21	98.93	21.20315	107.6064	0.202788	6.787277	33.46988	6.458898	1.3
-21	98.93	21.22051	101.1374	0.207801	6.536972	31.45779	6.070607	1.3
-21	98.93	21.23787	98.7415	0.204863	6.291873	30.71256	5.926797	1.3
-22	98.93	21.25524	100.0593	0.197414	6.144008	31.12244	6.005896	1.3
-22	98.93	21.2726	98.26231	0.197833	6.046484	30.56351	5.898035	1.3
-22	98.93	21.2726	94.06945	0.202155	5.914918	29.25936	5.646365	1.3
-22	98.93	21.28997	90.11618	0.205524	5.760793	28.02974	5.409076	1.3
-23	98.93	21.28997	86.76189	0.207788	5.607455	26.98641	5.207741	1.3
-23	98.93	21.30733	85.56393	0.205191	5.460899	26.6138	5.135835	1.3
-23	98.93	21.30733	86.4025	0.198844	5.343857	26.87465	5.186169	1.3
-24	98.93	21.30733	87.95985	0.192014	5.25331	27.35902	5.279646	1.4
-24	98.93	21.3247	87.48067	0.189517	5.156767	27.20999	5.250884	1.4
-24	98.93	21.3247	86.04311	0.188032	5.032273	26.76284	5.164597	1.4
-24	98.93	21.3247	84.00658	0.18708	4.888283	26.1294	5.042358	1.4
-25	98.93	21.34206	80.05331	0.190926	4.754022	24.89979	4.805069	1.4
-25	98.93	21.34206	78.25636	0.189014	4.600765	24.34087	4.69721	1.4
-25	98.93	21.35942	78.13657	0.18153	4.411835	24.3036	4.69002	1.5
-25	98.93	21.35942	76.10004	0.177788	4.208277	23.67016	4.56778	1.5
-26	98.93	21.35942	72.38636	0.178988	4.029932	22.51506	4.344873	1.5
-26	98.93	21.37679	68.0737	0.182989	3.874548	21.17364	4.086013	1.4
-26	98.93	21.37679	66.51635	0.181159	3.748043	20.68925	3.992535	1.5
-26	98.93	21.39415	68.79247	0.169866	3.634651	21.3972	4.129156	1.5
-27	98.93	21.39415	73.34473	0.15341	3.499761	22.81315	4.402398	1.7
-27	98.93	21.41152	74.1833	0.145427	3.355578	23.07398	4.452731	1.8
-27	98.93	21.42888	69.99043	0.148131	3.224791	21.76983	4.201061	1.8
-28	98.93	21.44625	72.02697	0.13872	3.107788	22.40327	4.323301	1.9
-28	98.93	21.46361	73.46452	0.130872	2.990488	22.85041	4.409588	2.0
-28	98.93	21.48097	72.62595	0.127496	2.880088	22.58958	4.359254	2.1
-28	98.93	21.49834	71.42799	0.12528	2.783341	22.21696	4.287348	2.1
-29	98.93	21.5157	69.75084	0.125571	2.724307	21.6953	4.18668	2.1
-29	98.93	21.53307	67.35492	0.128247	2.68678	20.95007	4.042869	2.1
-29	98.93	21.55043	65.91737	0.129496	2.65505	20.50294	3.956582	2.0
-29	98.93	21.58516	66.03716	0.12779	2.624835	20.54019	3.963773	2.1
-30	98.93	21.58516	65.79757	0.127109	2.60138	20.46567	3.949392	2.1
-30	98.93	21.60252	64.24022	0.12993	2.596163	19.98127	3.855914	2.0
-30	98.93	21.61989	62.92246	0.131061	2.565051	19.5714	3.776818	2.0
-31	98.93	21.63725	62.80267	0.128699	2.514014	19.53414	3.769628	2.0
-31	98.93	21.65462	61.8443	0.127724	2.456896	19.23606	3.712103	2.1
-31	98.93	21.67198	59.68797	0.129324	2.40095	18.56534	3.582673	2.0
-31	98.93	21.68934	57.77123	0.130686	2.348324	17.96917	3.467624	2.0
-32	98.93	21.70671	55.49511	0.134547	2.322445	17.2612	3.331003	2.0
-32	98.93	21.72407	53.09918	0.140098	2.313846	16.51597	3.187191	1.9

-32	98.93	21.74144	51.06265	0.145001	2.30298	15.88253	3.064952	1.8
-32	98.93	21.7588	50.82306	0.145905	2.306461	15.80801	3.050571	1.8
-33	98.93	21.77617	52.14082	0.143196	2.32234	16.21788	3.129667	1.8
-33	98.93	21.77617	52.97939	0.143435	2.363622	16.47871	3.180001	1.8
-33	98.93	21.79353	53.09918	0.145436	2.402017	16.51597	3.187191	1.8
-34	98.93	21.79353	52.02102	0.149551	2.419826	16.18062	3.122477	1.8
-34	98.93	21.81089	49.6251	0.155881	2.406078	15.43539	2.978665	1.7
-34	98.93	21.81089	46.98958	0.16277	2.378985	14.61564	2.820473	1.6
-34	98.93	21.81089	43.87489	0.174128	2.376295	13.64684	2.633519	1.5
-35	98.93	21.81089	41.95815	0.181324	2.366398	13.05066	2.518469	1.5
-35	98.93	21.82826	41.47896	0.182563	2.355355	12.90161	2.489707	1.4
-35	98.93	21.82826	39.44243	0.190853	2.341423	12.26818	2.367467	1.4
-36	98.93	21.82826	37.2861	0.201301	2.334578	11.59747	2.238037	1.3
-36	98.93	21.82826	34.05161	0.221447	2.345435	10.59141	2.043892	1.2
-36	98.93	21.82826	31.41609	0.244556	2.389719	9.77166	1.885699	1.1
-36	98.93	21.84562	33.81201	0.231748	2.437266	10.51689	2.029511	1.1
-37	98.93	21.84562	37.0465	0.213794	2.463537	11.52294	2.223656	1.2
-37	98.93	21.84562	37.64548	0.209251	2.450171	11.70925	2.259608	1.3
-37	98.93	21.84562	35.72875	0.217852	2.421003	11.11307	2.14456	1.2
-37	98.93	21.84562	37.0465	0.206413	2.37849	11.52295	2.223656	1.3
-38	98.93	21.84562	39.80182	0.188391	2.332276	12.37996	2.389039	1.4
-38	98.93	21.82826	39.56223	0.186208	2.291375	12.30543	2.374658	1.4
-38	98.93	21.82826	37.1663	0.195732	2.262699	11.56021	2.230846	1.3
-39	98.93	21.82826	33.33283	0.217073	2.25058	10.36784	2.000749	1.2
-39	98.93	21.81089	29.61915	0.246496	2.270901	9.21274	1.777841	1.1
-39	98.93	21.81089	29.61915	0.246715	2.272917	9.21274	1.777841	1.1
-39	98.93	21.81089	29.61915	0.243903	2.247012	9.21274	1.777841	1.1
-40	98.93	21.79353	29.25976	0.243619	2.217167	9.100955	1.756269	1.1
-40	98.93	21.79353	28.90037	0.243798	2.191543	8.989171	1.734697	1.1
-40	98.93	21.79353	28.42119	0.243064	2.148713	8.840127	1.705935	1.1
-40	98.93	21.77617	28.0618	0.238324	2.080177	8.728343	1.684364	1.1
-41	98.93	21.77617	27.82221	0.232113	2.008663	8.653819	1.669983	1.1
-41	98.93	21.77617	28.54098	0.219185	1.945793	8.877389	1.713126	1.2
-41	98.93	21.77617	29.25976	0.209188	1.903812	9.100959	1.756269	1.3
-42	98.93	21.7588	29.49935	0.20559	1.886389	9.175478	1.77065	1.3
-42	98.93	21.7588	29.37955	0.205264	1.875744	9.138218	1.763459	1.3
-42	98.93	21.7588	28.90037	0.207004	1.860798	8.98917	1.734697	1.3
-42	98.93	21.7588	28.18159	0.210335	1.843713	8.765602	1.691554	1.3
-43	98.93	21.74144	27.58261	0.213926	1.835338	8.579297	1.655601	1.2
-43	98.93	21.74144	27.22322	0.215257	1.822689	8.467511	1.634029	1.2
-43	98.93	21.74144	26.86384	0.217723	1.819236	8.355726	1.612458	1.2
-44	98.93	21.74144	26.50445	0.219272	1.807663	8.243947	1.590886	1.2
-44	98.93	21.74144	26.26486	0.219051	1.789519	8.169422	1.576505	1.2
-44	98.93	21.72407	25.78567	0.220024	1.764676	8.020374	1.547743	1.2
-44	98.93	21.72407	25.18669	0.221454	1.734884	7.834069	1.51179	1.2
-45	98.93	21.72407	24.58771	0.223315	1.707862	7.64776	1.475837	1.2
-45	98.93	21.70671	23.84647	0.226385	1.679148	7.417208	1.431345	1.2
-45	98.93	21.70671	23.03036	0.231417	1.657721	7.163365	1.38236	1.1
-46	98.93	21.70671	22.28164	0.237369	1.645082	6.930481	1.337419	1.1
-46	98.93	21.70671	21.70512	0.239633	1.6178	6.751159	1.302814	1.1
-46	98.93	21.70671	21.61527	0.235977	1.586525	6.723215	1.297421	1.1
-47	98.93	21.70671	21.30829	0.232752	1.542618	6.627733	1.278995	1.1
-47	98.93	21.70671	20.87403	0.232078	1.506802	6.492661	1.25293	1.1
-47	98.93	21.70671	20.43977	0.231763	1.473454	6.357586	1.226864	1.1
-47	98.93	21.70671	20.11033	0.230807	1.443722	6.255118	1.20709	1.1
-48	98.93	21.70671	19.90818	0.227963	1.411602	6.19224	1.194956	1.2
-48	98.93	21.70671	19.70602	0.227524	1.394574	6.129361	1.182822	1.2
-48	98.93	21.70671	19.36161	0.228313	1.374955	6.022234	1.162149	1.2
-49	98.93	21.72407	18.75514	0.234966	1.370699	5.8336	1.125747	1.1
-49	98.93	21.72407	18.55298	0.238402	1.375748	5.770719	1.113612	1.1
-49	98.93	21.72407	18.6578	0.241857	1.403574	5.803324	1.119904	1.1
-50	98.93	21.74144	18.29093	0.25339	1.44159	5.68921	1.097883	1.0
-50	98.93	21.74144	17.6021	0.270477	1.480852	5.474957	1.056537	1.0
-50	98.93	21.74144	16.92825	0.287916	1.515984	5.265361	1.016091	0.9
-51	98.93	21.7588	17.0181	0.290589	1.538179	5.293308	1.021484	0.9
-51	98.93	21.77617	17.16035	0.291284	1.554746	5.337557	1.030022	0.9
-51	98.93	21.79353	16.77102	0.299852	1.564166	5.216457	1.006653	0.9
-51	98.93	21.81089	16.28434	0.307348	1.556743	5.065081	0.977441	0.9
-52	98.93	21.82826	15.88752	0.313712	1.550256	4.941654	0.953622	0.8
-52	98.93	21.86299	15.37839	0.31746	1.518505	4.783293	0.923063	0.8
-52	98.93	21.88035	14.42002	0.331284	1.485876	4.485202	0.865538	0.8

-53	98.93	21.89771	13.62637	0.339174	1.437538	4.238346	0.817901	0.8
-53	98.93	21.91508	13.22206	0.340011	1.398324	4.112588	0.793633	0.8
-53	98.93	21.93244	12.72041	0.34419	1.361808	3.956556	0.763522	0.8
-53	98.93	21.94981	12.36102	0.33624	1.292768	3.844772	0.74195	0.8
-54	98.93	21.96717	12.42092	0.311625	1.203933	3.863403	0.745545	0.8
-54	98.93	21.96717	12.5482	0.288954	1.127787	3.902993	0.753185	0.9
-54	98.93	21.96717	12.52574	0.272732	1.062564	3.896007	0.751837	1.0
-55	98.93	21.96717	12.29364	0.264061	1.009719	3.823813	0.737906	1.0
-55	98.93	21.94981	12.36851	0.251318	0.966844	3.847101	0.7424	1.0
-55	98.93	21.93244	12.49579	0.240431	0.934482	3.886692	0.750039	1.1
-56	98.93	21.91508	12.55569	0.232558	0.908213	3.905322	0.753635	1.1
-56	98.93	21.91508	12.39846	0.229039	0.883268	3.856416	0.744197	1.1
-56	98.93	21.89771	12.24123	0.226279	0.861561	3.807511	0.73476	1.2
-57	98.93	21.88035	11.99415	0.226149	0.843686	3.73066	0.719929	1.2
-57	98.93	21.86299	11.67968	0.228675	0.830742	3.632847	0.701054	1.2
-57	98.93	21.86299	11.44758	0.23026	0.819876	3.560655	0.687122	1.1
-58	98.93	21.84562	11.21547	0.232178	0.809943	3.48846	0.67319	1.1
-58	98.93	21.82826	10.93844	0.235678	0.801844	3.402293	0.656562	1.1
-58	98.93	21.79353	10.54911	0.242232	0.79481	3.281194	0.633193	1.1
-59	98.93	21.7588	10.10736	0.250972	0.789005	3.143794	0.606678	1.0
-59	98.93	21.74144	9.63566	0.261029	0.782322	2.997075	0.578365	1.0
-59	98.93	21.72407	9.41853	0.264776	0.775673	2.92954	0.565332	1.0
-60	98.93	21.70671	9.283759	0.26528	0.766029	2.88762	0.557242	1.0
-60	98.93	21.68934	9.246323	0.261901	0.75322	2.875977	0.554995	1.0
-60	98.93	21.67198	9.201399	0.257696	0.737526	2.862003	0.552299	1.0
-61	98.93	21.65462	8.999244	0.257376	0.720427	2.799125	0.540165	1.0
-61	98.93	21.63725	8.722215	0.259086	0.70289	2.712959	0.523537	1.0
-61	98.93	21.61989	8.460161	0.260597	0.685747	2.631449	0.507807	1.0
-61	98.93	21.60252	8.287954	0.259213	0.668221	2.577885	0.497471	1.0
-62	98.93	21.58516	8.258005	0.253638	0.651486	2.56857	0.495673	1.0
-62	98.93	21.58516	8.280467	0.246744	0.635504	2.575557	0.497021	1.1
-62	98.93	21.56779	8.235543	0.242626	0.621507	2.561583	0.494325	1.1
-62	98.93	21.55043	8.115747	0.241746	0.610244	2.524322	0.487134	1.1
-63	98.93	21.5157	7.921078	0.24316	0.59909	2.463772	0.47545	1.1
-63	98.93	21.49834	7.756359	0.243176	0.586672	2.412539	0.465563	1.1
-63	98.93	21.48097	7.614101	0.24261	0.574571	2.36829	0.457024	1.1
-64	98.93	21.44625	7.501792	0.240977	0.562286	2.333358	0.450283	1.1
-64	98.93	21.42888	7.299636	0.242132	0.549755	2.27048	0.438149	1.1
-64	98.93	21.39415	7.17984	0.240648	0.53742	2.233217	0.430958	1.1
-65	98.93	21.37679	7.052557	0.239419	0.525196	2.193627	0.423318	1.1
-65	98.93	21.35942	6.992659	0.235317	0.511814	2.174996	0.419723	1.1
-65	98.93	21.34206	6.79799	0.236334	0.499716	2.114446	0.408038	1.1
-65	98.93	21.3247	6.55091	0.240119	0.489265	2.037596	0.393208	1.1
-66	98.93	21.30733	6.431114	0.239925	0.47993	2.000333	0.386017	1.1
-66	98.93	21.28997	6.423627	0.235423	0.470377	1.998004	0.385568	1.1
-66	98.93	21.2726	6.386191	0.231652	0.460145	1.986361	0.383321	1.1
-66	98.93	21.25524	6.41614	0.224745	0.448518	1.995676	0.385118	1.2
-67	98.93	21.25524	6.401165	0.219399	0.436827	1.991018	0.384219	1.2
-67	98.93	21.23787	6.356242	0.214801	0.424671	1.977045	0.381523	1.2
-67	98.93	21.23787	6.33378	0.209554	0.412834	1.970059	0.380175	1.3
-68	98.93	21.22051	6.206497	0.207749	0.401052	1.930468	0.372535	1.3
-68	98.93	21.22051	6.124137	0.205	0.390494	1.904851	0.367591	1.3
-68	98.93	21.20315	6.049264	0.202623	0.381249	1.881563	0.363097	1.3
-68	98.93	21.18578	5.877058	0.204469	0.37377	1.828	0.352761	1.3
-69	98.93	21.16842	5.839621	0.199616	0.362574	1.816356	0.350514	1.3
-69	98.93	21.15105	5.712338	0.19698	0.349988	1.776766	0.342874	1.3
-69	98.93	21.13369	5.704851	0.188729	0.334888	1.774437	0.342424	1.4
-69	98.93	21.11633	5.585054	0.184242	0.32006	1.737175	0.335234	1.4
-70	98.93	21.0816	5.577567	0.177133	0.307298	1.734846	0.334784	1.5
-70	98.93	21.04687	5.435309	0.174887	0.295664	1.690599	0.326246	1.5
-70	98.93	21.0295	5.345462	0.171903	0.285815	1.662653	0.320853	1.5
-71	98.93	20.99478	5.263103	0.169203	0.276991	1.637036	0.315909	1.6
-71	98.93	20.96005	5.135819	0.167739	0.267954	1.597445	0.308269	1.6
-71	98.93	20.92532	4.986074	0.167685	0.260057	1.550869	0.299281	1.6
-71	98.93	20.87323	4.933663	0.163922	0.251549	1.534566	0.296135	1.6
-72	98.93	20.82113	4.761456	0.16365	0.242365	1.481003	0.285799	1.6
-72	98.93	20.76904	4.671609	0.161317	0.234403	1.453057	0.280406	1.6
-72	98.93	20.71695	4.664122	0.155735	0.225929	1.450728	0.279956	1.7
-72	98.93	20.66486	4.536839	0.153591	0.216738	1.411138	0.272316	1.7
-73	98.93	20.5954	4.417042	0.151063	0.207543	1.373877	0.265126	1.7
-73	98.93	20.54331	4.282272	0.148876	0.198297	1.331958	0.257036	1.8

-73	98.93	20.47385	4.207399	0.144608	0.189244	1.308669	0.252542	1.8
-74	98.93	20.42176	4.162476	0.140038	0.181307	1.294697	0.249846	1.9
-74	98.93	20.38703	4.027705	0.138304	0.173264	1.252778	0.241756	1.9
-74	98.93	20.33494	3.892934	0.13744	0.166421	1.210859	0.233667	1.9
-74	98.93	20.26548	3.803087	0.135627	0.160434	1.182912	0.228274	1.9
-75	98.93	20.19602	3.668317	0.136451	0.15569	1.140993	0.220185	1.9
-75	98.93	20.12657	3.548521	0.136009	0.150118	1.103732	0.212994	1.9
-75	98.93	20.05711	3.436212	0.135826	0.145171	1.068799	0.206253	1.9
-75	98.93	20.00502	3.316416	0.136187	0.140482	1.031538	0.199062	1.9
-76	98.93	19.93556	3.226569	0.135052	0.135537	1.003592	0.19367	1.9
-76	98.93	19.90083	3.181645	0.132544	0.131168	0.989619	0.190973	2.0
-76	98.93	19.84874	3.136722	0.129303	0.126154	0.975646	0.188277	2.0
-77	98.93	19.79665	3.061849	0.127334	0.121267	0.952358	0.183782	2.1
-77	98.93	19.72719	2.972002	0.126953	0.117357	0.924411	0.17839	2.1
-77	98.93	19.65773	2.859693	0.126958	0.112926	0.889479	0.171648	2.1
-77	98.93	19.58828	2.73241	0.129028	0.109659	0.849889	0.164008	2.0
-78	98.93	19.51882	2.627588	0.130142	0.106363	0.817285	0.157717	2.0
-78	98.93	19.44936	2.56769	0.129675	0.103566	0.798654	0.154121	2.0
-78	98.93	19.37991	2.492817	0.129258	0.100222	0.775366	0.149627	2.0
-78	98.93	19.32781	2.447894	0.127983	0.097445	0.761393	0.146931	2.1
-79	98.93	19.27572	2.380509	0.125432	0.092874	0.740434	0.142886	2.1
-79	98.93	19.22363	2.283174	0.126141	0.08958	0.710159	0.137044	2.1
-79	98.93	19.1889	2.170866	0.127659	0.086199	0.675226	0.130303	2.1
-79	98.93	19.15417	2.095993	0.127354	0.083027	0.651938	0.125809	2.1
-80	98.93	19.11944	2.043582	0.125855	0.079998	0.635636	0.122663	2.1
-80	98.93	19.10208	1.991171	0.124073	0.076843	0.619334	0.119517	2.1
-80	98.93	19.06735	1.953735	0.120273	0.073088	0.60769	0.11727	2.2
-81	98.93	19.04999	1.901324	0.118869	0.070298	0.591388	0.114124	2.2
-81	98.93	18.99789	1.856401	0.117388	0.067782	0.577415	0.111427	2.2
-81	98.93	18.96317	1.781528	0.117142	0.064911	0.554126	0.106933	2.2
-81	98.93	18.92844	1.774041	0.112884	0.062289	0.551798	0.106484	2.3
-82	98.93	18.89371	1.714143	0.112274	0.059861	0.533167	0.102889	2.3
-82	98.93	18.85898	1.594347	0.115931	0.057491	0.495906	0.095698	2.3
-82	98.93	18.80689	1.564398	0.114434	0.055683	0.48659	0.0939	2.3
-82	98.93	18.77216	1.534449	0.112478	0.053683	0.477275	0.092103	2.3
-83	98.93	18.7548	1.519474	0.110058	0.052015	0.472617	0.091204	2.4
-83	98.93	18.72007	1.511987	0.106104	0.0499	0.470288	0.090755	2.5
-83	98.93	18.7027	1.384704	0.109648	0.047225	0.430698	0.083115	2.4
-83	98.93	18.66797	1.354754	0.107572	0.045329	0.421383	0.081317	2.4
-84	98.93	18.65061	1.354754	0.104096	0.043864	0.421383	0.081317	2.5
-84	98.93	18.63325	1.294856	0.104524	0.042097	0.402752	0.077722	2.5
-84	98.93	18.59852	1.309831	0.098831	0.040265	0.40741	0.07862	2.7
-84	98.93	18.58115	1.279882	0.096929	0.038587	0.398095	0.076823	2.7
-85	98.93	18.54642	1.160086	0.102919	0.037137	0.360833	0.069632	2.6
-85	98.93	18.52906	1.145111	0.100119	0.03566	0.356175	0.068733	2.6
-85	98.93	18.52906	1.115162	0.099098	0.034373	0.34686	0.066936	2.7
-85	98.93	18.49433	1.100188	0.097813	0.033472	0.342202	0.066037	2.7
-86	98.93	18.47697	1.085213	0.095229	0.032144	0.337545	0.065138	2.8
-86	98.93	18.4596	0.95793	0.103433	0.030818	0.297955	0.057498	2.5
-86	98.93	18.42488	0.950443	0.100508	0.029713	0.295626	0.057049	2.6
-87	98.93	18.39015	0.950443	0.098141	0.029013	0.295626	0.057049	2.7
-87	98.93	18.37278	0.927981	0.097213	0.028059	0.288639	0.055701	2.7
-87	98.93	18.33805	0.927981	0.092563	0.026717	0.288639	0.055701	2.8
-87	98.93	18.32069	0.823159	0.100332	0.025689	0.256035	0.049409	2.6
-88	98.93	18.30333	0.79321	0.097912	0.024157	0.24672	0.047611	2.7
-88	98.93	18.28596	0.79321	0.09248	0.022817	0.24672	0.047611	2.8
-88	98.93	18.2686	0.763261	0.091808	0.021796	0.237405	0.045814	2.9
-88	98.93	18.23387	0.785723	0.084834	0.020733	0.244391	0.047162	3.1
-89	98.93	18.21651	0.748287	0.083275	0.019382	0.232747	0.044915	3.2
-89	98.93	18.19914	0.650952	0.090943	0.018413	0.202472	0.039072	2.9
-89	98.93	18.18178	0.643465	0.087691	0.017551	0.200143	0.038623	3.0
-90	98.93	18.16441	0.643465	0.084888	0.01699	0.200143	0.038623	3.1
-90	98.93	18.14705	0.606029	0.084469	0.015922	0.188499	0.036376	3.1
-90	98.93	18.12968	0.665927	0.072688	0.015056	0.20713	0.039971	3.6
-90	98.93	18.09496	0.79321	0.055737	0.013751	0.24672	0.047611	4.7
-91	98.93	18.06023	0.606029	0.066605	0.012555	0.188499	0.036376	4.0
-4	118.02	21.44625	540.4297	0.167886	28.22079	168.0953	32.5505	0.8
-4	118.02	21.44625	870.1086	0.104759	28.35174	270.6385	52.40732	1.2
-4	118.02	21.44625	394.7577	0.201013	24.68141	122.7854	23.77656	0.6
-5	118.02	21.46361	399.0703	0.180564	22.41281	124.1268	24.03632	0.7
-5	118.02	21.46361	525.0958	0.126191	20.6102	163.3258	31.62693	1.0

-6	118.02	21.44625	417.7585	0.147987	19.22933	129.9396	25.16192	0.9
-6	118.02	21.44625	661.1842	0.091091	18.73331	205.6548	39.82364	1.4
-6	118.02	21.44625	378.3456	0.141768	16.68329	117.6806	22.78805	0.9
-7	118.02	21.44625	458.9684	0.107244	15.30986	142.7575	27.64402	1.2
-7	118.02	21.44625	478.8545	0.097248	14.48447	148.9429	28.84178	1.3
-7	118.02	21.44625	450.7025	0.101779	14.26797	140.1865	27.14616	1.2
-7	118.02	21.44625	307.1867	0.136212	13.01473	95.54736	18.50209	0.9
-8	118.02	21.44625	286.5818	0.143579	12.79844	89.13842	17.26105	0.9
-8	118.02	21.44625	256.3932	0.156492	12.48	79.74852	15.44276	0.8
-8	118.02	21.44625	216.5011	0.177201	11.93278	67.34049	13.04003	0.7
-9	118.02	21.44625	246.4501	0.156041	11.96147	76.65582	14.84388	0.8
-9	118.02	21.44625	344.6829	0.106996	11.47102	107.2102	20.76052	1.2
-9	118.02	21.42888	337.3753	0.109215	11.46071	104.9373	20.32038	1.2
-10	118.02	21.44625	402.6642	0.090742	11.36501	125.2447	24.25278	1.4
-10	118.02	21.44625	335.5784	0.106395	11.10534	104.3783	20.21215	1.2
-10	118.02	21.46361	298.202	0.113197	10.49933	92.75274	17.96094	1.1
-11	118.02	21.48097	340.49	0.097294	10.30402	105.906	20.50798	1.3
-11	118.02	21.49834	354.5062	0.09356	10.3165	110.2656	21.35218	1.3
-11	118.02	21.53307	355.8239	0.097638	10.80618	110.6755	21.43155	1.3
-12	118.02	21.56779	335.6982	0.11133	11.62456	104.4156	20.21936	1.1
-12	118.02	21.60252	339.0525	0.116642	12.30088	105.4589	20.4214	1.1
-12	118.02	21.61989	307.5461	0.130885	12.5203	95.65913	18.52374	1.0
-13	118.02	21.65462	292.4518	0.138478	12.59651	90.96422	17.6146	0.9
-13	118.02	21.67198	245.7313	0.160958	12.30238	76.43228	14.80059	0.8
-13	118.02	21.68934	230.038	0.167896	12.01312	71.55105	13.85537	0.8
-14	118.02	21.70671	249.5648	0.15353	11.91773	77.62464	15.03148	0.8
-14	118.02	21.72407	246.8095	0.152483	11.70576	76.76762	14.86553	0.8
-14	118.02	21.72407	257.3515	0.146226	11.70488	80.04664	15.50048	0.9
-15	118.02	21.74144	226.0848	0.166819	11.73093	70.32143	13.61726	0.8
-15	118.02	21.74144	196.2555	0.188605	11.51309	61.04331	11.82062	0.7
-15	118.02	21.7588	181.7602	0.199211	11.26232	56.5347	10.94756	0.6
-15	118.02	21.7588	171.2181	0.207423	11.04643	53.25569	10.3126	0.6
-16	118.02	21.7588	160.4365	0.217725	10.86494	49.90216	9.663216	0.6
-16	118.02	21.7588	158.7594	0.220695	10.89804	49.38052	9.562203	0.6
-16	118.02	21.7588	172.2963	0.204108	10.93837	53.59106	10.37754	0.6
-17	118.02	21.7588	183.1978	0.190603	10.86089	56.98184	11.03415	0.7
-17	118.02	21.7588	194.219	0.180127	10.88144	60.4099	11.69796	0.7
-17	118.02	21.7588	168.7024	0.204733	10.74298	52.4732	10.16108	0.6
-17	118.02	21.77617	151.931	0.226213	10.69007	47.25661	9.150923	0.6
-18	118.02	21.77617	179.9633	0.189269	10.59445	55.97576	10.83933	0.7
-18	118.02	21.77617	159.1187	0.213062	10.54492	49.49229	9.583843	0.6
-18	118.02	21.77617	149.6548	0.23117	10.76065	46.54864	9.013825	0.5
-18	118.02	21.7588	149.535	0.238681	11.10137	46.51137	9.00661	0.5
-19	118.02	21.7588	133.6022	0.277549	11.5337	41.55562	8.046965	0.5
-19	118.02	21.7588	144.9828	0.26345	11.88041	45.09545	8.732427	0.5
-19	118.02	21.7588	149.535	0.253934	11.81081	46.51138	9.00661	0.5
-20	118.02	21.7588	139.4722	0.26341	11.42708	43.38142	8.400519	0.5
-20	118.02	21.7588	139.1128	0.259513	11.22903	43.26963	8.378872	0.5
-20	118.02	21.7588	133.4824	0.270428	11.22773	41.51835	8.039749	0.5
-20	118.02	21.77617	130.4875	0.274505	11.14126	40.58681	7.859364	0.5
-21	118.02	21.77617	128.2113	0.280594	11.18977	39.87884	7.722267	0.4
-21	118.02	21.77617	117.6693	0.304289	11.13694	36.59986	7.087314	0.4
-21	118.02	21.77617	119.9454	0.2962	11.05057	37.30782	7.224405	0.4
-22	118.02	21.77617	119.7058	0.30133	11.21952	37.23329	7.209974	0.4
-22	118.02	21.77617	120.4246	0.305118	11.42875	37.45687	7.253268	0.4
-22	118.02	21.77617	123.6591	0.305181	11.73817	38.46291	7.448084	0.4
-23	118.02	21.77617	120.6642	0.320884	12.04322	37.53139	7.267699	0.4
-23	118.02	21.77617	115.8723	0.338418	12.19689	36.04094	6.979079	0.4
-23	118.02	21.79353	113.5962	0.349639	12.35377	35.33297	6.841988	0.4
-23	118.02	21.79353	110.1221	0.366708	12.56061	34.25239	6.63274	0.3
-24	118.02	21.79353	105.9293	0.387277	12.7601	32.94824	6.380204	0.3
-24	118.02	21.79353	106.5282	0.39201	12.98906	33.13455	6.416277	0.3
-24	118.02	21.79353	104.7313	0.398842	12.99252	32.57563	6.308048	0.3
-24	118.02	21.79353	98.50191	0.416646	12.7652	30.63804	5.932847	0.3
-25	118.02	21.81089	87.60046	0.453347	12.35246	27.24725	5.276244	0.3
-25	118.02	21.81089	77.1782	0.496209	11.91176	24.00551	4.648503	0.3
-25	118.02	21.81089	74.1833	0.507865	11.71845	23.07397	4.468118	0.2
-26	118.02	21.81089	73.58432	0.516555	11.82274	22.88767	4.432041	0.2
-26	118.02	21.81089	72.62595	0.537217	12.13549	22.58957	4.374318	0.2
-26	118.02	21.81089	74.42289	0.539719	12.49367	23.14849	4.482549	0.2
-26	118.02	21.81089	79.93351	0.514081	12.78136	24.86252	4.814458	0.2

-27	118.02	21.82826	84.48576	0.489613	12.86627	26.27845	5.088643	0.3
-27	118.02	21.82826	82.68882	0.495984	12.75647	25.71953	4.980412	0.3
-27	118.02	21.84562	77.77718	0.518467	12.54266	24.19182	4.68458	0.2
-28	118.02	21.84562	73.70412	0.536197	12.29227	22.92493	4.439257	0.2
-28	118.02	21.84562	71.54778	0.540025	12.01784	22.25422	4.309379	0.2
-28	118.02	21.86299	69.03207	0.536542	11.52049	21.47173	4.157855	0.2
-28	118.02	21.86299	66.75594	0.524567	10.89199	20.76377	4.020762	0.2
-29	118.02	21.86299	65.19859	0.510142	10.34535	20.27937	3.926962	0.2
-29	118.02	21.88035	64.47981	0.492372	9.874924	20.05581	3.883669	0.3
-29	118.02	21.88035	64.36002	0.468009	9.368849	20.01854	3.876454	0.3
-30	118.02	21.88035	64.12042	0.442516	8.825544	19.94402	3.862023	0.3
-30	118.02	21.89771	62.32348	0.430695	8.34907	19.38509	3.753792	0.3
-30	118.02	21.91508	59.80777	0.42952	7.990199	18.60261	3.602269	0.3
-30	118.02	21.91508	58.01082	0.428146	7.725335	18.04369	3.494037	0.3
-31	118.02	21.93244	57.29205	0.419894	7.482564	17.82012	3.450745	0.3
-31	118.02	21.93244	57.05246	0.409211	7.261682	17.74559	3.436314	0.3
-31	118.02	21.94981	56.09409	0.402377	7.02048	17.44751	3.378591	0.3
-32	118.02	21.94981	54.41694	0.396089	6.704139	16.92585	3.277575	0.3
-32	118.02	21.96717	52.38041	0.385856	6.286529	16.29241	3.154913	0.3
-32	118.02	21.96717	50.58347	0.370766	5.833434	15.73347	3.046682	0.3
-32	118.02	21.96717	49.74489	0.34681	5.366071	15.47265	2.996174	0.4
-33	118.02	21.96717	49.26571	0.322156	4.936585	15.32361	2.967312	0.4
-33	118.02	21.96717	48.06775	0.307906	4.603496	14.95099	2.895158	0.4
-33	118.02	21.96717	46.27081	0.301384	4.337539	14.39208	2.786927	0.4
-33	118.02	21.96717	44.11448	0.301642	4.138939	13.72137	2.65705	0.4
-34	118.02	21.96717	42.07794	0.307941	4.030313	13.08792	2.534387	0.4
-34	118.02	21.96717	40.4008	0.318715	4.005061	12.56626	2.433372	0.4
-34	118.02	21.96717	40.52059	0.31851	4.014343	12.60353	2.440587	0.4
-35	118.02	21.96717	41.11957	0.317617	4.062273	12.78983	2.476664	0.4
-35	118.02	21.96717	40.76019	0.32323	4.097923	12.67805	2.455018	0.4
-35	118.02	21.96717	40.76019	0.321078	4.070647	12.67805	2.455018	0.4
-35	118.02	21.96717	42.43733	0.302808	3.996983	13.19971	2.556033	0.4
-36	118.02	21.96717	43.3957	0.288431	3.893181	13.4978	2.613757	0.4
-36	118.02	21.98454	42.43733	0.286992	3.788208	13.19971	2.556033	0.4
-36	118.02	21.98454	39.68202	0.298069	3.678971	12.3427	2.390079	0.4
-36	118.02	21.98454	35.36936	0.326535	3.59231	11.00129	2.130324	0.4
-37	118.02	21.98454	32.49426	0.348808	3.525411	10.10701	1.957155	0.4
-37	118.02	21.98454	30.9369	0.360556	3.469494	9.622616	1.863354	0.3
-37	118.02	21.98454	29.37955	0.373882	3.416614	9.138218	1.769553	0.3
-38	118.02	21.98454	29.61915	0.363518	3.349001	9.21274	1.783985	0.3
-38	118.02	22.0019	30.81711	0.33961	3.255278	9.585354	1.856139	0.4
-38	118.02	22.0019	31.77548	0.316141	3.124563	9.883447	1.913862	0.4
-38	118.02	22.0019	32.13486	0.297075	2.969331	9.995228	1.935508	0.4
-39	118.02	22.0019	31.77548	0.284424	2.811093	9.883444	1.913862	0.4
-39	118.02	22.0019	30.9369	0.278419	2.679121	9.622616	1.863354	0.5
-39	118.02	22.0019	29.97854	0.278103	2.593175	9.324523	1.805631	0.5
-40	118.02	22.0019	29.02017	0.282198	2.547238	9.026434	1.747907	0.4
-40	118.02	22.0019	28.66078	0.282529	2.518649	8.914649	1.726261	0.4
-40	118.02	22.0019	28.66078	0.28077	2.502963	8.914648	1.726261	0.4
-40	118.02	22.0019	28.66078	0.278324	2.481161	8.914648	1.726261	0.5
-41	118.02	22.0019	28.30139	0.277331	2.441306	8.802864	1.704615	0.5
-41	118.02	22.0019	27.82221	0.27751	2.401524	8.65382	1.675753	0.5
-41	118.02	22.0019	27.34302	0.276825	2.35433	8.504773	1.646891	0.5
-41	118.02	22.0019	26.74404	0.276121	2.296906	8.318466	1.610814	0.5
-42	118.02	22.0019	25.78567	0.279146	2.238854	8.020376	1.553091	0.5
-42	118.02	22.0019	24.70751	0.284003	2.182569	7.685025	1.488153	0.4
-42	118.02	22.0019	23.34483	0.291773	2.118618	7.261175	1.406077	0.4
-43	118.02	22.0019	22.56615	0.293861	2.062603	7.018976	1.359177	0.4
-43	118.02	22.0019	22.22923	0.289938	2.004683	6.914178	1.338884	0.4
-43	118.02	22.0019	22.26666	0.280772	1.944577	6.925823	1.341138	0.4
-44	118.02	22.0019	22.19179	0.275097	1.898869	6.902534	1.336629	0.5
-44	118.02	22.0019	21.86235	0.274947	1.86966	6.800065	1.316786	0.5
-44	118.02	22.0019	21.46552	0.277667	1.853882	6.676636	1.292885	0.5
-44	118.02	21.98454	21.23342	0.28313	1.869916	6.604443	1.278905	0.4
-45	118.02	21.98454	21.05373	0.288092	1.886582	6.548551	1.268083	0.4
-45	118.02	21.98454	20.76921	0.292799	1.891498	6.460055	1.250946	0.4
-45	118.02	21.98454	20.20767	0.299382	1.88173	6.285392	1.217124	0.4
-46	118.02	21.98454	19.57125	0.30585	1.861847	6.087442	1.178792	0.4
-46	118.02	21.98454	19.01719	0.311485	1.842466	5.915108	1.14542	0.4
-46	118.02	21.96717	18.49308	0.315235	1.813257	5.752089	1.113853	0.4
-47	118.02	21.96717	17.75933	0.324084	1.790193	5.523863	1.069658	0.4

-47	118.02	21.94981	16.86835	0.339646	1.782031	5.246732	1.015994	0.4
-47	118.02	21.93244	15.603	0.367589	1.783967	4.853159	0.939781	0.3
-48	118.02	21.91508	14.4874	0.397916	1.793072	4.506161	0.872587	0.3
-48	118.02	21.89771	14.69705	0.389867	1.782226	4.57137	0.885215	0.3
-48	118.02	21.86299	15.73029	0.359541	1.759143	4.892749	0.947448	0.4
-48	118.02	21.84562	16.23193	0.340942	1.721343	5.048781	0.977662	0.4
-49	118.02	21.81089	15.88003	0.340982	1.68422	4.939325	0.956467	0.4
-49	118.02	21.79353	15.52813	0.340594	1.645027	4.829871	0.935271	0.4
-49	118.02	21.7588	15.26608	0.338422	1.606948	4.748361	0.919488	0.4
-50	118.02	21.74144	14.76443	0.34063	1.564283	4.592328	0.889273	0.4
-50	118.02	21.72407	14.18042	0.343282	1.514108	4.410679	0.854098	0.4
-50	118.02	21.68934	13.49908	0.348343	1.462607	4.198755	0.81306	0.4
-50	118.02	21.67198	12.94503	0.352015	1.417361	4.026421	0.779689	0.4
-51	118.02	21.65462	12.44338	0.352012	1.362424	3.870389	0.749474	0.4
-51	118.02	21.63725	11.88184	0.350702	1.296099	3.695726	0.715652	0.4
-51	118.02	21.60252	11.14809	0.356924	1.237635	3.467501	0.671458	0.4
-52	118.02	21.60252	10.75875	0.35485	1.187469	3.346401	0.648008	0.4
-52	118.02	21.58516	10.53413	0.348282	1.141159	3.276536	0.634479	0.4
-52	118.02	21.56779	10.57157	0.333416	1.096331	3.28818	0.636734	0.4
-53	118.02	21.55043	10.74377	0.314171	1.049878	3.341744	0.647106	0.4
-53	118.02	21.53307	10.85608	0.296538	1.001312	3.376675	0.65387	0.4
-53	118.02	21.5157	10.82613	0.283457	0.954501	3.367361	0.652066	0.4
-53	118.02	21.49834	10.70634	0.27327	0.910017	3.3301	0.644851	0.5
-54	118.02	21.48097	10.42931	0.268518	0.871053	3.243933	0.628165	0.5
-54	118.02	21.44625	10.17474	0.264928	0.838432	3.164752	0.612833	0.5
-54	118.02	21.41152	9.995049	0.261216	0.812085	3.10886	0.60201	0.5
-55	118.02	21.35942	9.725507	0.26159	0.791315	3.025022	0.585775	0.5
-55	118.02	21.30733	9.493402	0.261845	0.773183	2.952828	0.571795	0.5
-55	118.02	21.25524	9.25381	0.263639	0.758832	2.878306	0.557364	0.5
-56	118.02	21.22051	9.081603	0.263491	0.744295	2.824742	0.546992	0.5
-56	118.02	21.18578	8.999244	0.259556	0.726529	2.799126	0.542031	0.5
-56	118.02	21.16842	8.827037	0.257177	0.706095	2.745561	0.531659	0.5
-57	118.02	21.13369	8.564982	0.257542	0.686105	2.664051	0.515876	0.5
-57	118.02	21.11633	8.205594	0.261908	0.668459	2.552268	0.494229	0.5
-57	118.02	21.0816	7.913591	0.264493	0.651036	2.461444	0.476642	0.5
-58	118.02	21.0295	7.816257	0.260483	0.633278	2.431169	0.470779	0.5
-58	118.02	20.99478	7.80877	0.253887	0.616651	2.428839	0.470328	0.5
-58	118.02	20.96005	7.703948	0.249484	0.597822	2.396236	0.464015	0.5
-58	118.02	20.92532	7.546716	0.246933	0.579633	2.34733	0.454545	0.5
-59	118.02	20.89059	7.337072	0.245643	0.560587	2.282123	0.441918	0.5
-59	118.02	20.85586	7.149891	0.241455	0.536971	2.223902	0.430644	0.5
-60	118.02	20.80377	7.000146	0.235385	0.51251	2.177325	0.421624	0.5
-60	118.02	20.78641	6.820452	0.229802	0.487511	2.121434	0.410801	0.5
-60	118.02	20.75168	6.655732	0.224768	0.465315	2.070199	0.40088	0.6
-60	118.02	20.71695	6.401165	0.224522	0.447028	1.991019	0.385547	0.6
-61	118.02	20.66486	6.109162	0.227187	0.4317	1.900194	0.36796	0.6
-61	118.02	20.61276	5.929468	0.224633	0.414292	1.844302	0.357136	0.6
-61	118.02	20.56067	5.936955	0.213789	0.39479	1.846631	0.357587	0.6
-62	118.02	20.49121	5.974392	0.201888	0.375164	1.858275	0.359842	0.6
-62	118.02	20.42176	5.936955	0.192885	0.356187	1.846631	0.357587	0.7
-62	118.02	20.33494	5.884545	0.184264	0.337264	1.830328	0.354431	0.7
-62	118.02	20.26548	6.03429	0.170481	0.319978	1.876906	0.36345	0.7
-63	118.02	20.21339	5.974392	0.163945	0.304655	1.858275	0.359842	0.8
-63	118.02	20.14393	5.712338	0.165004	0.293173	1.776766	0.344059	0.8
-63	118.02	20.09184	5.330488	0.171859	0.284941	1.657995	0.321059	0.7
-63	118.02	20.05711	5.02351	0.178911	0.279551	1.562513	0.30257	0.7
-64	118.02	20.00502	4.926176	0.17967	0.275297	1.532238	0.296707	0.7
-64	118.02	19.93556	4.903714	0.177031	0.270016	1.525251	0.295355	0.7
-64	118.02	19.88347	4.828842	0.174331	0.261839	1.501963	0.290845	0.7
-65	118.02	19.83138	4.821354	0.168461	0.252629	1.499634	0.290394	0.7
-65	118.02	19.76192	4.80638	0.16299	0.243667	1.494977	0.289492	0.8
-65	118.02	19.69246	4.753969	0.158469	0.234324	1.478674	0.286335	0.8
-65	118.02	19.623	4.738995	0.15376	0.226644	1.474017	0.285433	0.8
-65	118.02	19.57091	4.686584	0.152175	0.221827	1.457715	0.282277	0.8
-66	118.02	19.51882	4.679096	0.151007	0.219774	1.455386	0.281826	0.8
-66	118.02	19.46673	4.656635	0.150482	0.217958	1.4484	0.280473	0.8
-66	118.02	19.41463	4.566788	0.151867	0.215721	1.420454	0.275061	0.8
-67	118.02	19.36254	4.574275	0.148904	0.211858	1.422783	0.275512	0.8
-67	118.02	19.31045	4.619198	0.145148	0.208543	1.436756	0.278218	0.9
-67	118.02	19.24099	4.619198	0.142212	0.204324	1.436755	0.278218	0.9
-67	118.02	19.1889	4.589249	0.140047	0.199909	1.427441	0.276414	0.9

-68	118.02	19.13681	4.417042	0.142418	0.195665	1.373877	0.266042	0.9
-68	118.02	19.10208	4.199912	0.146604	0.191514	1.306341	0.252964	0.9
-68	118.02	19.04999	3.952832	0.153517	0.188748	1.22949	0.238082	0.8
-68	118.02	19.01526	3.825549	0.15589	0.185493	1.189899	0.230416	0.8
-69	118.02	18.99789	3.765651	0.155637	0.182292	1.171268	0.226808	0.8
-69	118.02	18.96317	3.773138	0.153133	0.179716	1.173597	0.227259	0.8
-69	118.02	18.9458	3.773138	0.149764	0.175763	1.173597	0.227259	0.8
-70	118.02	18.91107	3.735702	0.14816	0.172154	1.161953	0.225004	0.9
-70	118.02	18.87634	3.728215	0.14373	0.166673	1.159624	0.224553	0.9
-70	118.02	18.84162	3.690778	0.140767	0.161598	1.14798	0.222298	0.9
-70	118.02	18.80689	3.71324	0.135698	0.156726	1.154966	0.223651	0.9
-71	118.02	18.78952	3.705753	0.132307	0.152502	1.152637	0.2232	1.0
-71	118.02	18.7548	3.63088	0.13262	0.149774	1.129349	0.218691	1.0
-71	118.02	18.73743	3.608419	0.132136	0.148304	1.122362	0.217338	1.0
-71	118.02	18.7027	3.503597	0.134589	0.14667	1.089759	0.211024	0.9
-72	118.02	18.68534	3.406263	0.137103	0.145258	1.059484	0.205162	0.9
-72	118.02	18.66797	3.391288	0.136227	0.143695	1.054827	0.20426	0.9
-72	118.02	18.65061	3.323903	0.136981	0.14162	1.033867	0.200201	0.9
-72	118.02	18.63325	3.316416	0.135426	0.139697	1.031538	0.19975	0.9
-73	118.02	18.61588	3.219081	0.137167	0.13734	1.001263	0.193888	0.9
-73	118.02	18.59852	3.121747	0.139109	0.135073	0.970988	0.188025	0.9
-73	118.02	18.58115	3.076823	0.138969	0.132996	0.957015	0.185319	0.9
-74	118.02	18.56379	2.94954	0.142631	0.130853	0.917425	0.177653	0.9
-74	118.02	18.54642	2.919591	0.140739	0.127806	0.90811	0.175849	0.9
-74	118.02	18.52906	2.852206	0.141607	0.125627	0.88715	0.171791	0.9
-74	118.02	18.5117	2.792308	0.142536	0.123796	0.86852	0.168183	0.9
-75	118.02	18.49433	2.784821	0.139792	0.121086	0.86619	0.167732	0.9
-75	118.02	18.49433	2.724922	0.140679	0.119234	0.84756	0.164124	0.9
-75	118.02	18.47697	2.73241	0.137881	0.117184	0.849889	0.164575	0.9
-75	118.02	18.47697	2.657537	0.139559	0.11536	0.8266	0.160066	0.9
-76	118.02	18.4596	2.590152	0.140943	0.113549	0.805641	0.156007	0.9
-76	118.02	18.44224	2.582664	0.138895	0.111576	0.803312	0.155556	0.9
-76	118.02	18.44224	2.537741	0.13967	0.110247	0.789339	0.15285	0.9
-77	118.02	18.42488	2.545228	0.136433	0.10801	0.791668	0.153301	0.9
-77	118.02	18.42488	2.455381	0.138593	0.105847	0.763722	0.14789	0.9
-77	118.02	18.40751	2.380509	0.141143	0.104507	0.740433	0.14338	0.9
-77	118.02	18.39015	2.380509	0.138907	0.102851	0.740433	0.14338	0.9
-78	118.02	18.39015	2.320611	0.140188	0.101188	0.721803	0.139772	0.9
-78	118.02	18.37278	2.313123	0.138658	0.099761	0.719474	0.139321	0.9
-78	118.02	18.37278	2.245738	0.140323	0.098018	0.698514	0.135263	0.9
-78	118.02	18.35542	2.223276	0.139304	0.096333	0.691528	0.13391	0.9
-79	118.02	18.35542	2.163378	0.140798	0.094743	0.672897	0.130302	0.9
-79	118.02	18.33805	2.200814	0.136199	0.093234	0.684541	0.132557	0.9
-79	118.02	18.32069	2.170866	0.134491	0.090812	0.675226	0.130753	0.9
-79	118.02	18.32069	2.155891	0.131927	0.088466	0.670568	0.129851	1.0
-80	118.02	18.30333	2.140916	0.129523	0.086251	0.665911	0.128949	1.0
-80	118.02	18.28596	2.140916	0.125495	0.083568	0.665911	0.128949	1.0
-80	118.02	18.28596	2.066044	0.126395	0.081225	0.642622	0.124439	1.0
-81	118.02	18.2686	2.036095	0.125288	0.079346	0.633307	0.122636	1.0
-81	118.02	18.2686	2.013633	0.123859	0.077576	0.62632	0.121283	1.0
-81	118.02	18.25123	1.991171	0.123142	0.076266	0.619334	0.11993	1.0
-81	118.02	18.23387	1.946248	0.122929	0.074416	0.605361	0.117224	1.0
-82	118.02	18.21651	1.901324	0.122534	0.072465	0.591388	0.114518	1.0
-82	118.02	18.19914	1.938761	0.118169	0.07126	0.603032	0.116773	1.1
-82	118.02	18.18178	1.88635	0.118378	0.069456	0.586731	0.113616	1.1
-82	118.02	18.16441	1.863888	0.116986	0.067822	0.579744	0.112263	1.1
-83	118.02	18.14705	1.826452	0.116025	0.065914	0.568099	0.110009	1.1
-83	118.02	18.12968	1.841426	0.111369	0.063788	0.572757	0.110911	1.1
-83	118.02	18.11232	1.789015	0.111777	0.062199	0.556455	0.107754	1.1
-84	118.02	18.07759	1.766554	0.109663	0.060256	0.549469	0.106401	1.2
-84	118.02	18.06023	1.714143	0.108979	0.058104	0.533167	0.103244	1.2
-84	118.02	18.04286	1.684194	0.108375	0.056772	0.523851	0.10144	1.2
-84	118.02	18.0255	1.706656	0.102611	0.05447	0.530838	0.102793	1.2
-85	118.02	18.00813	1.684194	0.100436	0.052613	0.523851	0.10144	1.3
-85	118.02	17.99077	1.631783	0.118855	0.060325	0.50755	0.098284	1.1
-85	118.02	17.97341	1.63927	0.114194	0.058225	0.509879	0.098735	1.1
-85	118.02	17.95604	1.654245	0.108264	0.055706	0.514536	0.099636	1.2
-86	118.02	17.92131	1.759066	0.094905	0.051926	0.54714	0.10595	1.3
-3	146.85	21.46361	19.06212	2.308567	13.68768	5.929082	17.90241	0.2
-4	146.85	21.46361	19.20437	1.660867	9.920906	5.97333	18.036	0.3
-4	146.85	21.46361	19.01719	1.2149	7.186268	5.915111	17.86021	0.4

-4	146.85	21.46361	19.18191	0.88075	5.254857	5.966342	18.01491	0.6
-4	146.85	21.46361	18.80755	0.672615	3.934728	5.8499	17.66332	0.8
-5	146.85	21.46361	17.90908	0.541511	3.016456	5.57044	16.81952	1.0
-5	146.85	21.46361	16.55388	0.454849	2.341982	5.14892	15.54676	1.2
-5	146.85	21.46361	15.6629	0.381249	1.857367	4.871789	14.70999	1.4
-6	146.85	21.46361	15.90998	0.303499	1.501908	4.948641	14.94204	1.8
-6	146.85	21.46361	16.78599	0.237468	1.23985	5.221116	15.76475	2.3
-6	146.85	21.46361	16.66619	0.197618	1.024423	5.183851	15.65224	2.7
-7	146.85	21.46361	16.6063	0.171463	0.885645	5.165225	15.59599	3.2
-7	146.85	21.46361	16.85337	0.151186	0.792528	5.242074	15.82803	3.6
-7	146.85	21.46361	17.51974	0.134023	0.730337	5.449338	16.45386	4.0
-8	146.85	21.46361	17.74436	0.127016	0.701026	5.519206	16.66482	4.3
-8	146.85	21.46361	16.90579	0.133329	0.701092	5.258375	15.87726	4.1
-8	146.85	21.46361	15.81265	0.144477	0.710589	4.918367	14.85063	3.7
-8	146.85	21.46361	15.34095	0.14837	0.70797	4.771647	14.40763	3.6
-9	146.85	21.46361	15.019	0.146273	0.683314	4.671509	14.10526	3.7
-9	146.85	21.46361	14.90669	0.137944	0.639587	4.636575	13.99979	3.9
-9	146.85	21.46361	14.49489	0.1598	0.720455	4.508491	13.61304	3.4
-10	146.85	21.46361	14.38258	0.150534	0.673423	4.473556	13.50756	3.6
-10	146.85	21.46361	14.40504	0.141958	0.636049	4.480545	13.52866	3.8
-10	146.85	21.46361	15.34844	0.1044	0.498403	4.773977	14.41466	5.2
-10	146.85	21.46361	16.30681	0.093004	0.471721	5.072071	15.31473	5.8
-11	146.85	21.46361	17.13789	0.084437	0.450097	5.330569	16.09524	6.4
-11	146.85	21.46361	17.47482	0.079809	0.433791	5.435367	16.41167	6.8
-11	146.85	21.46361	17.21276	0.07896	0.422742	5.353858	16.16556	6.9
-12	146.85	21.46361	17.01061	0.078521	0.415455	5.290979	15.97571	6.9
-12	146.85	21.46361	16.71112	0.078859	0.409897	5.197826	15.69444	6.9
-12	146.85	21.46361	16.4266	0.079787	0.407658	5.10933	15.42723	6.8
-13	146.85	21.46361	15.73029	0.083226	0.407204	4.892748	14.77328	6.5
-13	146.85	21.46361	14.89171	0.088548	0.410145	4.631919	13.98572	6.1
-13	146.85	21.46361	14.27776	0.093085	0.413387	4.440954	13.40912	5.8
-14	146.85	21.46361	13.94832	0.095317	0.41353	4.338485	13.09972	5.7
-14	146.85	21.46361	13.99324	0.094173	0.409884	4.352459	13.14191	5.8
-14	146.85	21.46361	13.91088	0.093076	0.402727	4.326841	13.06456	5.8
-14	146.85	21.46361	13.57396	0.093501	0.394765	4.222044	12.74814	5.8
-15	146.85	21.46361	13.26698	0.093633	0.386381	4.126561	12.45983	5.8
-15	146.85	21.46361	12.73538	0.095473	0.378188	3.961214	11.96058	5.7
-15	146.85	21.46361	12.18133	0.098098	0.371681	3.78888	11.44023	5.5
-15	146.85	21.46361	11.86686	0.099461	0.367118	3.691069	11.1449	5.4
-16	146.85	21.46361	11.4925	0.101918	0.364317	3.574626	10.79331	5.3
-16	146.85	21.46361	11.11065	0.104974	0.362774	3.455857	10.43469	5.2
-16	146.85	21.46361	11.36522	0.101461	0.358669	3.535039	10.67377	5.3
-17	146.85	21.46361	11.88932	0.09445	0.349281	3.698056	11.16599	5.7
-17	146.85	21.46361	12.21128	0.088798	0.337271	3.798196	11.46836	6.1
-17	146.85	21.46361	12.29364	0.085341	0.32633	3.823813	11.54571	6.3
-17	146.85	21.48097	12.33107	0.083005	0.318362	3.835457	11.58086	6.5
-18	146.85	21.48097	12.3161	0.081543	0.312374	3.830799	11.5668	6.6
-18	146.85	21.48097	11.97168	0.083125	0.309529	3.723673	11.24334	6.5
-18	146.85	21.48097	11.42511	0.087282	0.31017	3.553668	10.73002	6.2
-19	146.85	21.48097	10.86357	0.092952	0.314084	3.379005	10.20264	5.8
-19	146.85	21.48097	10.30203	0.100485	0.321988	3.204343	9.675268	5.4
-19	146.85	21.48097	9.852791	0.107821	0.33043	3.064612	9.25336	5.0
-19	146.85	21.49834	9.530839	0.113421	0.336234	2.964471	8.950995	4.8
-20	146.85	21.49834	9.381093	0.11544	0.336841	2.917895	8.81036	4.7
-20	146.85	21.49834	9.358632	0.113752	0.331121	2.910909	8.789265	4.8
-20	146.85	21.49834	9.126527	0.113231	0.321431	2.838716	8.571281	4.8
-20	146.85	21.5157	9.029192	0.110184	0.309446	2.808441	8.479868	4.9
-21	146.85	21.5157	8.999244	0.106309	0.297572	2.799125	8.451742	5.1
-21	146.85	21.53307	8.864472	0.103859	0.286361	2.757206	8.325169	5.2
-21	146.85	21.55043	8.81955	0.100756	0.276397	2.743233	8.28298	5.4
-22	146.85	21.56779	8.602419	0.100925	0.270045	2.675696	8.079059	5.4
-22	146.85	21.58516	8.295442	0.102815	0.265284	2.580213	7.790758	5.3
-22	146.85	21.60252	8.0259	0.105206	0.262634	2.496375	7.537615	5.1
-22	146.85	21.60252	7.831231	0.106932	0.260467	2.435826	7.354789	5.1
-23	146.85	21.61989	7.748871	0.107207	0.258391	2.410209	7.27744	5.1
-23	146.85	21.61989	7.733897	0.10649	0.256167	2.405552	7.263377	5.1
-23	146.85	21.63725	7.688973	0.105919	0.253314	2.39158	7.221186	5.1
-24	146.85	21.65462	7.584152	0.106058	0.250188	2.358976	7.122742	5.1
-24	146.85	21.68934	7.494305	0.106854	0.24908	2.331028	7.038361	5.1
-24	146.85	21.70671	7.39697	0.107789	0.247995	2.300754	6.946948	5.0
-24	146.85	21.74144	7.426919	0.107313	0.2479	2.310069	6.975075	5.0

-25	146.85	21.7588	7.449381	0.107524	0.249138	2.317056	6.99617	5.0
-25	146.85	21.79353	7.471843	0.108151	0.251347	2.324042	7.017266	5.0
-25	146.85	21.81089	7.277174	0.112646	0.254973	2.263492	6.83444	4.8
-25	146.85	21.84562	7.075018	0.117671	0.258948	2.200613	6.644583	4.6
-26	146.85	21.89771	6.783015	0.124438	0.262538	2.109789	6.370345	4.4
-26	146.85	21.94981	6.610808	0.129558	0.266401	2.056226	6.208615	4.2
-26	146.85	22.01926	6.483525	0.13332	0.268857	2.016635	6.089076	4.1
-27	146.85	22.07136	6.33378	0.137888	0.271647	1.970058	5.948441	3.9
-27	146.85	22.12345	6.206497	0.142078	0.274278	1.930469	5.828902	3.8
-27	146.85	22.15818	6.094188	0.145836	0.276438	1.895536	5.723426	3.7
-27	146.85	22.17554	5.981879	0.148862	0.276972	1.860603	5.617949	3.6
-28	146.85	22.21027	5.854596	0.151765	0.276367	1.821014	5.49841	3.6
-28	146.85	22.245	5.764749	0.153561	0.275345	1.793067	5.414029	3.5
-28	146.85	22.29709	5.742287	0.153483	0.274133	1.786081	5.392934	3.5
-29	146.85	22.36655	5.667414	0.154892	0.273043	1.762793	5.322616	3.5
-29	146.85	22.41864	5.540131	0.159083	0.274132	1.723203	5.203077	3.4
-29	146.85	22.4881	5.480233	0.161254	0.274869	1.704572	5.146823	3.4
-29	146.85	22.54019	5.382898	0.165057	0.276354	1.674297	5.05541	3.3
-30	146.85	22.59228	5.233153	0.171042	0.278408	1.62772	4.914775	3.2
-30	146.85	22.64438	5.120844	0.176498	0.281124	1.592787	4.809299	3.1
-30	146.85	22.6791	5.075921	0.179564	0.283498	1.578814	4.767109	3.0
-31	146.85	22.69647	5.001049	0.182694	0.284185	1.555526	4.696792	3.0
-31	146.85	22.7312	4.866278	0.186234	0.281886	1.513607	4.57022	2.9
-31	146.85	22.74856	4.701558	0.189041	0.276449	1.462373	4.415521	2.9
-31	146.85	22.76592	4.619198	0.187199	0.268959	1.436756	4.338172	2.9
-32	146.85	22.78329	4.596736	0.18127	0.259174	1.429769	4.317077	3.0
-32	146.85	22.81802	4.656635	0.171904	0.248986	1.4484	4.373331	3.2
-32	146.85	22.83538	4.551813	0.16913	0.239454	1.415796	4.274887	3.2
-32	146.85	22.83538	4.402068	0.169587	0.232202	1.369219	4.134252	3.2
-33	146.85	22.85275	4.229861	0.172486	0.226932	1.315656	3.972522	3.1
-33	146.85	22.85275	4.214887	0.170137	0.223049	1.310998	3.958459	3.2
-33	146.85	22.87011	4.117552	0.171087	0.219116	1.280723	3.867046	3.2
-34	146.85	22.87011	4.005243	0.174941	0.21794	1.245791	3.761569	3.1
-34	146.85	22.87011	3.915396	0.178899	0.217871	1.217845	3.677188	3.0
-34	146.85	22.88747	3.945345	0.177373	0.217665	1.227161	3.705315	3.1
-34	146.85	22.87011	3.87796	0.179291	0.216261	1.206201	3.64203	3.0
-35	146.85	22.87011	3.848011	0.179229	0.214516	1.196885	3.613903	3.0
-35	146.85	22.87011	3.750677	0.182812	0.213271	1.166611	3.522491	3.0
-35	146.85	22.85275	3.615906	0.189338	0.212947	1.124692	3.395919	2.9
-36	146.85	22.85275	3.563495	0.192489	0.213352	1.108389	3.346697	2.8
-36	146.85	22.85275	3.49611	0.196975	0.214196	1.08743	3.283411	2.7
-36	146.85	22.85275	3.361339	0.205356	0.214701	1.045511	3.15684	2.6
-36	146.85	22.83538	3.256518	0.213511	0.216267	1.012907	3.058396	2.5
-37	146.85	22.83538	3.316416	0.210239	0.21687	1.031538	3.11465	2.6
-37	146.85	22.83538	3.271492	0.213181	0.216925	1.017565	3.072459	2.5
-37	146.85	22.81802	3.234056	0.216398	0.217679	1.005921	3.0373	2.5
-38	146.85	22.81802	3.189132	0.222106	0.220318	0.991948	2.995109	2.4
-38	146.85	22.80065	3.069336	0.234577	0.223948	0.954686	2.882602	2.3
-38	146.85	22.80065	3.039387	0.24136	0.228175	0.945371	2.854475	2.2
-38	146.85	22.78329	2.94954	0.252454	0.231607	0.917425	2.770094	2.1
-39	146.85	22.78329	2.844718	0.264186	0.233757	0.884821	2.671649	2.0
-39	146.85	22.78329	2.852206	0.265031	0.235122	0.88715	2.678682	2.0
-39	146.85	22.78329	2.73241	0.27699	0.235411	0.849889	2.566174	2.0
-40	146.85	22.76592	2.762359	0.27154	0.233309	0.859204	2.594301	2.0
-40	146.85	22.76592	2.657537	0.277605	0.229468	0.8266	2.495856	2.0
-40	146.85	22.74856	2.657537	0.272707	0.22542	0.8266	2.495856	2.0
-40	146.85	22.74856	2.537741	0.280146	0.221131	0.789339	2.383348	1.9
-41	146.85	22.7312	2.522767	0.276818	0.217214	0.784681	2.369285	2.0
-41	146.85	22.7312	2.40297	0.284293	0.212486	0.74742	2.256776	1.9
-41	146.85	22.7312	2.387996	0.280376	0.208253	0.742762	2.242713	1.9
-42	146.85	22.71383	2.305636	0.283229	0.203117	0.717145	2.165364	1.9
-42	146.85	22.71383	2.305636	0.276113	0.198013	0.717145	2.165364	2.0
-42	146.85	22.71383	2.238251	0.276974	0.192825	0.696185	2.102079	2.0
-42	146.85	22.69647	2.18584	0.275477	0.187292	0.679884	2.052856	2.0
-43	146.85	22.69647	2.133429	0.274183	0.181943	0.663582	2.003634	2.0
-43	146.85	22.69647	2.088506	0.271078	0.176094	0.649609	1.961444	2.0
-43	146.85	22.6791	2.051069	0.266798	0.170207	0.637965	1.926285	2.0
-44	146.85	22.6791	2.006146	0.261722	0.163312	0.623992	1.884095	2.1
-44	146.85	22.66174	1.983684	0.257573	0.158924	0.617005	1.862999	2.1
-44	146.85	22.66174	1.871375	0.267288	0.155581	0.582073	1.757523	2.0
-44	146.85	22.64438	1.863888	0.263772	0.15292	0.579744	1.750492	2.1

-45	146.85	22.62701	1.774041	0.273475	0.150903	0.551798	1.666111	2.0
-45	146.85	22.60965	1.774041	0.269649	0.148792	0.551798	1.666111	2.0
-45	146.85	22.59228	1.706656	0.278371	0.14777	0.530838	1.602825	1.9
-46	146.85	22.57492	1.714143	0.275642	0.146963	0.533167	1.609857	2.0
-46	146.85	22.55755	1.646757	0.285443	0.146206	0.512208	1.54657	1.9
-46	146.85	22.52283	1.654245	0.284392	0.14633	0.514536	1.553603	1.9
-46	146.85	22.52283	1.661732	0.282714	0.146125	0.516865	1.560634	1.9
-47	146.85	22.4881	1.579372	0.295861	0.145341	0.491248	1.483285	1.8
-47	146.85	22.4881	1.586859	0.293237	0.144735	0.493577	1.490317	1.8
-47	146.85	22.47073	1.549423	0.30153	0.145317	0.481933	1.455158	1.8
-48	146.85	22.45337	1.5045	0.310683	0.145387	0.46796	1.412968	1.7
-48	146.85	22.45337	1.497012	0.309803	0.144254	0.465631	1.405936	1.7
-48	146.85	22.436	1.399678	0.326692	0.142227	0.435356	1.314523	1.7
-48	146.85	22.41864	1.392191	0.323977	0.140291	0.433027	1.307492	1.7
-49	146.85	22.41864	1.399678	0.317055	0.138032	0.435356	1.314523	1.7
-49	146.85	22.41864	1.279882	0.337014	0.134163	0.398095	1.202016	1.6
-49	146.85	22.40128	1.242446	0.333859	0.12902	0.38645	1.166857	1.6
-50	146.85	22.40128	1.212497	0.330674	0.124709	0.377135	1.13873	1.6
-50	146.85	22.40128	1.17506	0.330181	0.120678	0.365491	1.103571	1.6
-50	146.85	22.38391	1.055264	0.356278	0.116941	0.328229	0.991063	1.5
-50	146.85	22.38391	1.0927	0.334201	0.113586	0.339874	1.026222	1.6
-51	146.85	22.38391	1.137624	0.309786	0.109617	0.353847	1.068412	1.7
-51	146.85	22.38391	1.17506	0.288414	0.105413	0.365491	1.103571	1.9
-51	146.85	22.36655	1.115162	0.289489	0.100412	0.34686	1.047317	1.9
-52	146.85	22.36655	1.107675	0.276994	0.095433	0.344531	1.040286	2.0
-52	146.85	22.36655	1.0927	0.270733	0.092015	0.339874	1.026222	2.0
-52	146.85	22.34918	1.085213	0.262509	0.088609	0.337545	1.01919	2.1
-52	146.85	22.34918	0.987879	0.277915	0.085395	0.30727	0.927778	1.9
-53	146.85	22.34918	1.017828	0.261751	0.082867	0.316585	0.955905	2.1
-53	146.85	22.33182	1.010341	0.258224	0.081149	0.314256	0.948873	2.1
-53	146.85	22.33182	1.04029	0.243655	0.07884	0.323572	0.977	2.2
-53	146.85	22.33182	0.95793	0.253482	0.075526	0.297955	0.899651	2.1
-54	146.85	22.31446	0.935468	0.248217	0.072223	0.290968	0.878555	2.2
-54	146.85	22.31446	0.942955	0.235568	0.069091	0.293297	0.885587	2.3
-54	146.85	22.29709	0.942955	0.227374	0.066688	0.293297	0.885587	2.4
-55	146.85	22.29709	0.920494	0.224286	0.064215	0.28631	0.864492	2.4
-55	146.85	22.27973	0.920494	0.218211	0.062476	0.28631	0.864492	2.5
-55	146.85	22.26236	0.898032	0.217539	0.060764	0.279324	0.843397	2.5
-56	146.85	22.26236	0.868083	0.219262	0.059203	0.270009	0.81527	2.5
-56	146.85	22.245	0.808185	0.230509	0.057945	0.251378	0.759016	2.3
-56	146.85	22.245	0.808185	0.220289	0.055376	0.251378	0.759016	2.5
-56	146.85	22.22763	0.808185	0.212779	0.053488	0.251378	0.759016	2.5
-57	146.85	22.22763	0.79321	0.2083	0.051392	0.24672	0.744952	2.6
-57	146.85	22.21027	0.785723	0.203641	0.049768	0.244391	0.737921	2.7
-57	146.85	22.19291	0.770749	0.20123	0.048242	0.239734	0.723857	2.7
-58	146.85	22.17554	0.763261	0.19713	0.0468	0.237405	0.716825	2.7
-58	146.85	22.15818	0.748287	0.195327	0.045462	0.232747	0.702762	2.8
-58	146.85	22.14081	0.740799	0.192332	0.044317	0.230418	0.69573	2.8
-58	146.85	22.12345	0.725825	0.18984	0.042858	0.225761	0.681667	2.9
-59	146.85	22.10609	0.718338	0.182932	0.040873	0.223432	0.674635	3.0
-59	146.85	22.08872	0.680901	0.183195	0.038798	0.211788	0.639476	3.0
-60	146.85	22.07136	0.673414	0.176086	0.036883	0.209459	0.632445	3.1
-60	146.85	22.05399	0.703363	0.161866	0.035412	0.218774	0.660572	3.3
-60	146.85	22.01926	0.665927	0.164454	0.034063	0.20713	0.625413	3.3
-60	146.85	22.0019	0.628491	0.165221	0.032298	0.195486	0.590254	3.3
-61	146.85	21.96717	0.673414	0.149597	0.031334	0.209459	0.632445	3.6
-61	146.85	21.91508	0.635978	0.149684	0.02961	0.197815	0.597286	3.6
-61	146.85	21.88035	0.598542	0.154264	0.028719	0.18617	0.562127	3.5
-62	146.85	21.82826	0.583567	0.151689	0.027533	0.181513	0.548064	3.6
-62	146.85	21.7588	0.635978	0.13338	0.026384	0.197815	0.597286	4.1
-62	146.85	21.70671	0.635978	0.130617	0.025838	0.197815	0.597286	4.1
-62	146.85	21.63725	0.591054	0.137109	0.025206	0.183842	0.555095	3.9
-62	146.85	21.55043	0.57608	0.134823	0.024158	0.179184	0.541032	4.0
-63	146.85	21.48097	0.538644	0.141476	0.023703	0.16754	0.505873	3.8
-63	146.85	21.37679	0.531156	0.141786	0.023425	0.165211	0.498841	3.8
-63	146.85	21.30733	0.583567	0.125196	0.022725	0.181513	0.548064	4.3
-64	146.85	21.23787	0.583567	0.123476	0.022412	0.181513	0.548064	4.4
-64	146.85	21.16842	0.561105	0.126145	0.022016	0.174526	0.526968	4.3
-64	146.85	21.09896	0.538644	0.130062	0.021791	0.16754	0.505873	4.2
-64	146.85	21.06423	0.523669	0.128992	0.02101	0.162882	0.49181	4.2
-65	146.85	20.99478	0.486233	0.136957	0.020713	0.151238	0.456651	4.0

-65	146.85	20.94268	0.486233	0.134099	0.020281	0.151238	0.456651	4.0
-65	146.85	20.89059	0.538644	0.118039	0.019776	0.16754	0.505873	4.6
-65	146.85	20.82113	0.508695	0.120477	0.019062	0.158224	0.477746	4.5
-66	146.85	20.76904	0.486233	0.126964	0.019202	0.151238	0.456651	4.3
-66	146.85	20.71695	0.448797	0.135023	0.018848	0.139594	0.421492	4.0
-66	146.85	20.68222	0.456284	0.127753	0.018131	0.141922	0.428524	4.2
-67	146.85	20.64749	0.486233	0.119739	0.018109	0.151238	0.456651	4.5
-67	146.85	20.5954	0.448797	0.122426	0.01709	0.139594	0.421492	4.4
-67	146.85	20.56067	0.433822	0.125503	0.016935	0.134936	0.407429	4.3
-67	146.85	20.52594	0.396386	0.131641	0.01623	0.123292	0.37227	4.1
-68	146.85	20.49121	0.433822	0.118471	0.015986	0.134936	0.407429	4.6
-68	146.85	20.42176	0.456284	0.110276	0.015651	0.141923	0.428524	4.9
-68	146.85	20.36967	0.433822	0.112867	0.01523	0.134936	0.407429	4.8
-68	146.85	20.31757	0.41136	0.115046	0.01472	0.127949	0.386334	4.7
-69	146.85	20.28284	0.381411	0.121776	0.014447	0.118634	0.358207	4.4
-69	146.85	20.23075	0.358949	0.12321	0.013756	0.111648	0.337111	4.4
-69	146.85	20.19602	0.373924	0.11548	0.013431	0.116305	0.351175	4.7
-69	146.85	20.16129	0.426335	0.095875	0.012714	0.132607	0.400397	5.6
-70	146.85	20.1092	0.41136	0.095064	0.012163	0.127949	0.386334	5.7
-70	146.85	20.07447	0.381411	0.102853	0.012202	0.118634	0.358207	5.3
-70	146.85	20.00502	0.351462	0.107638	0.011767	0.109319	0.33008	5.0
-71	146.85	19.93556	0.321513	0.117774	0.011778	0.100003	0.301953	4.6
-71	146.85	19.8661	0.343975	0.107129	0.011462	0.10699	0.323048	5.1
-71	146.85	19.77928	0.366437	0.102591	0.011693	0.113976	0.344143	5.3
-71	146.85	19.72719	0.336488	0.107327	0.011233	0.104661	0.316016	5.0
-71	146.85	19.65773	0.321513	0.112275	0.011228	0.100003	0.301953	4.8
-72	146.85	19.60564	0.291564	0.11949	0.010836	0.090688	0.273826	4.5
-72	146.85	19.55355	0.299051	0.111296	0.010352	0.093017	0.280857	4.9
-72	146.85	19.48409	0.358949	0.090393	0.010092	0.111648	0.337111	6.0
-72	146.85	19.432	0.336488	0.091153	0.00954	0.104661	0.316016	5.9
-73	146.85	19.37991	0.314026	0.098601	0.009631	0.097675	0.294921	5.5
-73	146.85	19.32781	0.27659	0.109279	0.009401	0.08603	0.259762	5.0
-73	146.85	19.27572	0.261615	0.112177	0.009128	0.081373	0.245699	4.8
-74	146.85	19.22363	0.321513	0.087754	0.008776	0.100003	0.301953	6.2
-74	146.85	19.1889	0.314026	0.084831	0.008286	0.097675	0.294921	6.4
-74	146.85	19.11944	0.314026	0.084491	0.008253	0.097675	0.294921	6.4
-74	146.85	19.06735	0.291564	0.092032	0.008346	0.090688	0.273826	5.9
-75	146.85	19.03262	0.269102	0.09673	0.008096	0.083702	0.25273	5.6
-75	146.85	18.98053	0.314026	0.08288	0.008095	0.097675	0.294921	6.5
-75	146.85	18.9458	0.306539	0.083755	0.007986	0.095346	0.287889	6.5
-75	146.85	18.89371	0.254128	0.100364	0.007933	0.079044	0.238667	5.4
-76	146.85	18.87634	0.254128	0.101808	0.008047	0.079044	0.238667	5.3
-76	146.85	18.84162	0.239153	0.110345	0.008208	0.074386	0.224604	4.9
-76	146.85	18.80689	0.231666	0.114882	0.008278	0.072057	0.217572	4.7
-76	146.85	18.78952	0.284077	0.087457	0.007728	0.088359	0.266794	6.2
-77	146.85	18.7548	0.269102	0.086015	0.0072	0.083702	0.25273	6.3
-77	146.85	18.72007	0.254128	0.091189	0.007208	0.079044	0.238667	5.9
-77	146.85	18.66797	0.231666	0.095561	0.006886	0.072057	0.217572	5.7
-78	146.85	18.63325	0.216692	0.102373	0.0069	0.0674	0.203508	5.3
-78	146.85	18.58115	0.254128	0.080703	0.006379	0.079044	0.238667	6.7
-78	146.85	18.54642	0.246641	0.08205	0.006294	0.076715	0.231635	6.6
-78	146.85	18.5117	0.224179	0.09021	0.00629	0.069729	0.21054	6.0
-78	146.85	18.49433	0.224179	0.085158	0.005938	0.069729	0.21054	6.4
-79	146.85	18.4596	0.19423	0.099724	0.006025	0.060413	0.182413	5.4
-79	146.85	18.42488	0.246641	0.078682	0.006036	0.076715	0.231635	6.9
-79	146.85	18.39015	0.239153	0.078923	0.005871	0.074386	0.224604	6.9
-80	146.85	18.35542	0.209204	0.083051	0.005404	0.065071	0.196476	6.5
-80	146.85	18.33805	0.201717	0.086807	0.005446	0.062742	0.189445	6.2
-80	146.85	18.32069	0.179255	0.091824	0.00512	0.055756	0.16835	5.9
-80	146.85	18.28596	0.216692	0.082092	0.005533	0.0674	0.203508	6.6
-81	146.85	18.28596	0.239153	0.073192	0.005444	0.074386	0.224604	7.4
-81	146.85	18.2686	0.209204	0.082481	0.005367	0.065071	0.196476	6.6
-81	146.85	18.23387	0.209204	0.083282	0.005419	0.065071	0.196476	6.5
-81	146.85	18.21651	0.19423	0.091798	0.005546	0.060413	0.182413	5.9
-82	146.85	18.19914	0.171768	0.105216	0.005621	0.053427	0.161318	5.1
-82	146.85	18.18178	0.231666	0.076704	0.005527	0.072057	0.217572	7.1
-82	146.85	18.16441	0.216692	0.080966	0.005457	0.0674	0.203508	6.7
-83	146.85	18.14705	0.186743	0.088238	0.005125	0.058084	0.175381	6.1
-83	146.85	18.14705	0.19423	0.085856	0.005187	0.060413	0.182413	6.3
-83	146.85	18.12968	0.164281	0.102308	0.005228	0.051098	0.154286	5.3
-83	146.85	18.12968	0.201717	0.081664	0.005124	0.062742	0.189445	6.6

-84	146.85	18.11232	0.216692	0.073102	0.004927	0.0674	0.203508	7.4
-84	146.85	18.09496	0.171768	0.08896	0.004753	0.053427	0.161318	6.1
-84	146.85	18.09496	0.171768	0.107324	0.005734	0.053427	0.161318	5.0
-84	146.85	18.07759	0.141819	0.108143	0.00477	0.044111	0.133191	5.0
-85	146.85	18.06023	0.186743	0.091488	0.005314	0.058084	0.175381	5.9
-85	146.85	18.04286	0.201717	0.084697	0.005314	0.062742	0.189445	6.4
-85	146.85	18.0255	0.171768	0.099464	0.005314	0.053427	0.161318	5.4
-85	146.85	17.99077	0.186743	0.091488	0.005314	0.058084	0.175381	5.9
-86	146.85	17.97341	0.156793	0.100353	0.004894	0.048769	0.147254	5.4
-86	146.85	17.95604	0.179255	0.087778	0.004894	0.055756	0.16835	6.2
-86	146.85	17.92131	0.239153	0.065793	0.004894	0.074386	0.224604	8.2
-87	146.85	17.88659	0.231666	0.06792	0.004894	0.072057	0.217572	8.0
-87	146.85	17.85186	0.19423	0.07406	0.004474	0.060413	0.182413	7.3
-87	146.85	17.83449	0.19423	0.07406	0.004474	0.060413	0.182413	7.3
-87	146.85	17.81713	0.171768	0.075885	0.004054	0.053427	0.161318	7.1
-87	146.85	17.7824	0.216692	0.060152	0.004054	0.0674	0.203508	9.0
-87	146.85	17.76504	0.224179	0.058143	0.004054	0.069729	0.21054	9.3
-87	146.85	17.74767	0.19423	0.060158	0.003634	0.060413	0.182413	9.0
-87	146.85	17.73031	0.201717	0.054474	0.003418	0.062742	0.189445	9.9
-87	146.85	17.73031	0.186743	0.055638	0.003232	0.058084	0.175381	9.7